CI 28 S	C 28.3.1	P 27	L 8	# <u>i-1</u>	C/ 45	SC 45.2	2.1.14b.a	P 38	L 21	# i-4
Anslow, Peter		Ciena Corpora	ation		Anslow, F	Peter		Ciena Corpo	oration	
	ng instruction	Comment Status A n "the first list" should be "in t ause", and the location shoul		EZ bclause numbers are	" be	51		ment Status A Id be " before 45	.2.1.14b.1"	BY alignment
SuggestedRem	,				Chan	ige " befor	e 45.2.1.14c.1	" to " before 45	5.2.1.14b.1"	
		ruction to: "Insert rows for 25 r 10GigT as follows:	Gig T and 40G	igT in the first list in	Response	е	Respo	nse Status C		
Response ACCEPT.		Response Status C			ACC					
					Cl 45 Anslow, F	SC 45.2	2.1.65.1	P 40	L1	# i-5
	C 30.3.2.1.2		L 43	# i-2			0	Ciena Corpo	JIALION	C 3
Anslow, Peter		Ciena Corpora	ation		Commen			nent Status A		<i>EZ</i> 5.1 and 45.2.1.65.2 are
Comment Type		Comment Status A		EZ		lauses.	i clauses 45.2	.1.05.1 and 45.2.1.	05.2 , 45.2.1.0	5.1 and 45.2.1.05.2 are
IEEE Std 8 2015"	802.3bw has	been approved by the SASB	, so this should	be "IEEE Std 802.3bw-	Suggeste	dRemedy				
SuggestedRem	nedv					e the word "	clauses"			
00		f "IEEE Std 802.3bw-201x" to	IEEE Std 802	2.3bw-2015" throughout	Respons ACC		Respo	onse Status C		
Response		Response Status C								
ACCEPT.					<i>Cl</i> 45 Anslow, F	SC 45.2 Peter	2.3.9	P 45 Ciena Corpo	L 1	# i-6
C/ 45 S	C 45.2.1.6	P 36	L 18	# i-3	Commen		Comr	ment Status A		EZ
Anslow, Peter		Ciena Corpora	ation					125" should be "	Change the title of	of Table 45-125" and
Comment Type	E	Comment Status R		BY alignment	"(unc	hanged bits	not shown)" sl	nould be "(unchang	ged rows not show	vn)".
	ed combinat	ions for bits 1.7.5:0 are label	led "reserved",	not "reserved for future	Suggeste	dRemedy				
use"								125" to "the title (unchanged rows		" and change
	,				Response	0	,	inse Status C	s not showiny .	
U	eserved for the	uture use" to "reserved" (3 ins	stances)		ACC		Пезро			
Response		Response Status C								
REJECT. 802.3bw dr	raft 3.3 show	s these as 'reserved for futur	e use'							
with genera of commen	al comments	ollowing comment resolution a aligning with 802.3by and 80 anging these to "reserved", as n 802.3by.])2.3-2015, supp	oort the implementation						

Ciena Corpo	ation	# i-7		C/ 113 Maguire, Va	SC 113.7 alerie	••	<i>P</i> 178 The Sier	L 23 mon Company	# i-	10
ent Status A dded for EEE cont 19 for this new reg		2 (Register 3.21)	<i>EZ</i> , but		ize that up		Comment Status R m, 2-connector catego in ISO/IEC TR 11801	ry 7A channels		<i>Cablin</i> tional
				SuggestedF	Remedy					
how appropriate c	nanges to the res	served registers.					/www.ieee802.org/3/bo s with revision marks.	q/public/nov15/n	naguire_3bq_01a_	_1115.pdf
se Status C				Response	•	0	Response Status U			
				REJEC	Т.					
P 59	L 42	# i-8			sensus to cl	nange	e the draft.			
Ciena Corpo	ation			Straw F	Poll:					
ent Status A			EZ	reference		n edito	r's proposed resolutior orial license to align w juage).			
				N:10						
nsert rows"				A: 9						
se Status C				Straw F	Poll					
					rt rejecting t	his co	omment			
P 209	L 1	# i-9		Y: 14 N: 9						
The Siemon	Company			A: 3						
ent Status A		Refe	erences	The ed	4					
O/IEC TR 11801- pplication", will co /ith existing structu	ntain useful infori	mation related to t		there w	ere none. T	he eo	er there were any addit ditor then asked wheth nch break or at this m	ner there were a	ny who believed th	
add: ISO/IEC TR t 25GBASE-T app		it), Guidelines for t	the							
se Status C										
to bibliography										
/IEC SC25 WG3 w	ill be available b	efore close of spor								
/IE	C SC25 WG3 w	C SC25 WG3 will be available b		o publication) - This reference is added in anticipation C SC25 WG3 will be available before close of sponsor e applicable to this specification.	C SC25 WG3 will be available before close of sponsor	C SC25 WG3 will be available before close of sponsor	C SC25 WG3 will be available before close of sponsor	C SC25 WG3 will be available before close of sponsor	C SC25 WG3 will be available before close of sponsor	C SC25 WG3 will be available before close of sponsor

C/ 113 SC 1	13.7.2	P 178	L 44	# i-11	C/ 45		5.2.1.6	P 36	L 17	# i-12			
Maguire, Valerie		The Siemon C	Company		Marris, Art	hur		Cadence Design Syst					
Comment Type	TR	Comment Status R		Cabling	Comment	Туре	TR	Comment Status A		BY alignmen			
	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.						Editing instruction for 25GBASE-T PMA is type selection incorrect. None of IEEE Std 802.3bw-201X, IEEE Std 802.3bn-201X, or IEEE Std 802.3by-201X have an entry for:						
SuggestedRemedy					"1101xx = reserved for future use"								
Refer to page 4 to see propose	SuggestedRemedy 802,3by has:												
Response		Response Status U			"11101	11 = rese	rved"						
REJECT. No consensus to make this change to the draft						st adding 11 = 25G		Il instruction to change this t PMA"	0:				
Straw Poll:					Response			Response Status C					
referenced file)	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				ACCEPT IN PRINCIPLE. (802.3bn has the 1101xx entry, but will probably follow 802.3bq) Commenter's suggested remedy would change the 802.3 Chief Editor's proposed allocation of 110111 to 25GBASE-T PMA.								
A:9 Straw Poll:					Proposed remedy - retain exist allocation of 110111, and make edits consistent with 802.3bw and 802.3by, by:								
I support reject	ing this co	omment			1. Change editor's note to delete reference to 802.3bn, but still reflect 802.3bw and								
N: 7 A: 7					2. Reta use"	ain existir	ng rows	"110111 = 25GBASE-T PM/	A" and "110110	= reserved for future			
					3. Belo	ow that, ir	nsert nev	w row "11010x = reserved fo	or future use"				
								dit changing row "1101xx" (with appropriate underline					
					and 80	02.3-2015	5, suppo	bllowing comment resolution rt changing these to simply ' versed in 802.3by.]					

Cl 45 Marris, Arth	SC 45.2.1.14	b P 38 Cadence Des	L 3 sign Syst	# i-13	C/ 1 RAN, ADEE	SC 1.4.64j	P 24 Intel Corpora	L 25 ation	# i-16
Comment 7 Editoria	51	Comment Status A uld reference Table 45-17b		BY alignment	Comment Ty Missing		Comment Status A		E
Suggestedl Change	-	to "Table 45-17b"			SuggestedRe Change	<i>emedy</i> "25Gb/s" to "2	25 Gb/s".		
Also ch <i>Response</i> ACCEF	C C	c.1" to "45.2.1.14b.1" on line Response Status C	21		Response ACCEPT		Response Status C		
C/ 45	SC 45.2.3.6	P 43	L 40	# [i-14	C/ 1 RAN, ADEE	SC 1.4	P 24 Intel Corpora	L 21 ation	# i-17
Marris, Arth		Cadence Des		π 1-14	Comment Ty	vpe E	Comment Status A		E
Comment 7 There i	Гуре т	Comment Status A ainst 802.3by draft 3.0 to an		BY alignment	listed as	running in pa	ted by IEEE Std 802.3by-201 rallel (IEEE P802.3bn, IEEE '802.3bz) I could not find any	P802.3bs, IEEE	P802.3bw, IEEE
Suggestedl	Remedy				SuggestedRe	emedy			
For the	,	remove the underlining from	the last three bi	ts and make the editing	Change	subclause ide	ntifier to 1.4.64h and update	editing instruction	n accordingly.
	ion indicate a ch	ange from:			Response		Response Status C	0	
"1 1 0 = to:	= reserved"	C C			Response ACCEPT	Γ. (implement	Response Status C ed by i-161)	U	
"1 1 0 = to: "0 1 1 0	= reserved") = Select 40GB/	ange from: ASE-T PCS type" <i>Response Status</i> C			ACCEPT [Editor's The reso [1] The to	Γ. (implement note added a plution to com ext ' into the	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F	completed: R as inserted'	
"1 1 0 = to: "0 1 1 0 Response	= reserved") = Select 40GB/ PT. SC 45.2.3.7	ASE-T PCS type"	<i>L</i> 23 sign Syst	# [<u>i-15</u>	Editor's [Editor's The reso [1] The tư into the l i-89 <http: ie<="" td=""><td>Γ. (implement note added a olution to com ext ' into the ist after 1.4.6 eee802.org/3/t</td><td>ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted py/public/comments/8023by_</td><td>completed: R as inserted' ' assuming IE D30_comment_t</td><td>EE P802.3by comment eceived_by_clause.pdf#</td></http:>	Γ. (implement note added a olution to com ext ' into the ist after 1.4.6 eee802.org/3/t	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted py/public/comments/8023by_	completed: R as inserted' ' assuming IE D30_comment_t	EE P802.3by comment eceived_by_clause.pdf#
"1 1 0 = to: "0 1 1 0 Response ACCEF CI 45 Marris, Arth Comment 7 There i	= reserved") = Select 40GB/ PT. SC 45.2.3.7 pur <i>SC</i> 7 s a comment aga	ASE-T PCS type" <i>Response Status</i> C <i>P</i> 44 Cadence Des <i>Comment Status</i> A ainst 802.3by draft 3.0 to ins	sign Syst	BY alignment	Editor's The reso [1] The to into the I i-89 <http: ie<br="">Page=3></http:>	 Γ. (implement note added a plution to com ext ' into the ist after 1.4.6 pee802.org/3/b s accepted 	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F lg 25GBASE-SR as inserted	completed: R as inserted' I' assuming IE D30_comment_i g 25GBASE-R a	EE P802.3by comment received_by_clause.pdf# s inserted' if not.
"1 1 0 = to: "0 1 1 0 <i>Response</i> <i>ACCEF</i> <i>CI</i> 45 Marris, Arth <i>Comment 1</i> There i and ma <i>Suggestedl</i>	= reserved" D = Select 40GB/ PT. SC 45.2.3.7 Jur <i>SC</i> 7 s a comment againsk it as reserved Remedy	ASE-T PCS type" <i>Response Status</i> C <i>P</i> 44 Cadence Des <i>Comment Status</i> A ainst 802.3by draft 3.0 to ins I.	sign Syst	BY alignment	Editor's The reso [1] The to into the I i-89 <http: ie<br="">Page=3></http:>	 Γ. (implement note added a plution to com ext ' into the ist after 1.4.6 pee802.org/3/b s accepted 	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted by/public/comments/8023by_ or ' into the list after 1.4.64g GBASE-T:' be changed to P 24	completed: R as inserted' I' assuming IE D30_comment_r g 25GBASE-R a p read '1.4.64h 25	EE P802.3by comment received_by_clause.pdf# s inserted' if not.
"1 1 0 = to: "0 1 1 0 <i>Response</i> <i>ACCEF</i> <i>Cl</i> 45 Marris, Arth <i>Comment 1</i> There i and ma <i>Suggestedl</i> Make e "3.8.6	= reserved" D = Select 40GB/ DT. SC 45.2.3.7 SC 7 SC 7	ASE-T PCS type" <i>Response Status</i> C <i>P</i> 44 Cadence Des <i>Comment Status</i> A ainst 802.3by draft 3.0 to ins I.	sign Syst	BY alignment	ACCEPT [Editor's The reso [1] The to into the I i-89 <http: ie<br="">Page=3> [2] The to] C/ 1 RAN, ADEE Comment Ty</http:>	T. (implement note added a olution to com ext ' into the ist after 1.4.6 eee802.org/3/t > is accepted ext '1.4.64j 25 SC 1.4.131a	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted py/public/comments/8023by_ or ' into the list after 1.4.64g GBASE-T:' be changed to P 24 Intel Corpora <i>Comment Status</i> A	completed: R as inserted' I' assuming IE D30_comment_r g 25GBASE-R a read '1.4.64h 25 <i>L</i> 41 ation	EE P802.3by comment received_by_clause.pdf# s inserted' if not. 5GBASE-T:'.
"1 1 0 = to: "0 1 1 0 Response ACCEF Cl 45 Marris, Arth Comment 1 There i and ma Suggestedl Make e "3.8.6 to:	= reserved") = Select 40GB/ PT. SC 45.2.3.7 our <i>Type</i> T s a comment against it as reserved Remedy editing instruction Reserved Value	ASE-T PCS type" Response Status C P 44 Cadence Des Comment Status A ainst 802.3by draft 3.0 to ins l. n so it changes always 0"	sign Syst	BY alignment	ACCEPT [Editor's The reso [1] The to into the I i-89 <http: ie<br="">Page=3> [2] The to] C/ 1 RAN, ADEE Comment Ty</http:>	T. (implement note added a olution to com ext ' into the ist after 1.4.6 eee802.org/3/t > is accepted ext '1.4.64j 25 SC 1.4.131a	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted by/public/comments/8023by_ or ' into the list after 1.4.64g GBASE-T:' be changed to P 24 Intel Corpora	completed: R as inserted' I' assuming IE D30_comment_r g 25GBASE-R a read '1.4.64h 25 <i>L</i> 41 ation	EE P802.3by comment received_by_clause.pdf# s inserted' if not. sGBASE-T:'. # <u>i-18</u>
"1 1 0 = to: "0 1 1 0 Response ACCEF Cl 45 Marris, Arth Comment 1 There i and ma Suggestedl Make e "3.8.6 to:	e reserved" D = Select 40GB/ DT. SC 45.2.3.7 SC 45.2.3.7 Sa comment agark it as reserved Remedy editing instruction Reserved Value 40GBASE-T capa	ASE-T PCS type" <i>Response Status</i> C <i>P</i> 44 Cadence Des <i>Comment Status</i> A ainst 802.3by draft 3.0 to ins I.	sign Syst	BY alignment	ACCEPT [Editor's The reso [1] The te into the I i-89 <http: ie<br="">Page=35 [2] The te] C/ 1 RAN, ADEE Comment Ty Superflue SuggestedRe</http:>	T. (implement note added a blution to com ext ' into the ist after 1.4.6 eee802.org/3/t > is accepted ext '1.4.64j 25 SC 1.4.131a pe E ous comma b	ed by i-161) iter comment resolution was nent i-161 was list after 1.4.64i 25GBASE-F 4g 25GBASE-SR as inserted py/public/comments/8023by_ or ' into the list after 1.4.64g GBASE-T:' be changed to P 24 Intel Corpora <i>Comment Status</i> A	completed: R as inserted' I' assuming IE D30_comment_r g 25GBASE-R a read '1.4.64h 25 <i>L</i> 41 ation	EE P802.3by comment received_by_clause.pdf# s inserted' if not. sGBASE-T:'. # <u>i-18</u>

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: Comment ID

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C/ 1 SC 1.4.277	b <i>P</i> 25	L 6	# i-19	C/ 30	SC 30.5.1.1.4	P 30	L 49	# i-20
RAN, ADEE	Intel Corporati	-		RAN, ADEE		Intel Corpora		π [-20
Comment Type E	Comment Status A		Editorial	Comment Ty	/ре Т	Comment Status A		BY alignment
Clause 113. There is no need for Other clauses that d	T and 40GBASE-T)" can be rea the nested parenthesis, the refe fine sublayers used in multiple ting all relevant types.	erence is inform	ative enough without it.	paragra revision	oh of "BEHAVI 802.3by only o inal sixth parag	ere is not based on 802.3by DUR DEFINED AS" is not cl hanges the eighth paragrap raph refers to "For 40 Gb/s	nanged compare h.	d to the 802.3-2015
SuggestedRemedy				lt acom	to make cone	to reference 25 Ch/a in the	outh poregraph	instand since most of
Delete "(for both 250	BASE-T and 40GBASE-T)".					e to reference 25 Gb/s in the bes not apply to 25 Gb/s, bu		
Response	Response Status C			802.3by	•			
ACCEPT.				SuggestedR	emedy			
					ion" in both the	es its draft to fit 802.3bq D3. sixth and the eighth paragr		
				Response		Response Status C		
					T IN PRINCIPL rovides detail to	E. implement commenters su	ggested remedy	:
				Change	page 30 line 4	to match IEEE Std 802.3-2	2015 (should be 4	40Gb/s)
				Move ec	litor's note afte	the sixth paragraph, and be	efore the eight.	
						to (also) change eighth para uption, as described in com		d by IEEE Std 802.3by-
				The reso Insert ch making of Link I	blution to comm nange to eighth it consistent with nterruption.	er comment resolution was ient i-74 was: paragraph in proposed resp h IEEE Std 802.3-2015 (app the sixth paragraph, and be	oonse, but retain blies to 40Gb/s) a	

C/ 45 SC 45	.2.1.12.9a	P 37	L 41	# i-21	C/ 45	SC 45.2.1.6	4.2	P 39	L 40	# <u>i-24</u>
RAN, ADEE		Intel Corpora	tion		RAN, ADEE			Intel Corpora	ation	
Comment Type	E Comme	ent Status R		PMA/PMD	Comment Typ	e TR	Comme	ent Status A		
"PMA/PMD type		text used in 45.2.		in this register use SE-T.	as oppose setting bit	ed to training	g mode. This zero does no	s is not the oppos	site of short react	t enables data transfe h mode". Therefore, ate in normal mode; it
	+5.2.1.14b.a 25G	SAGE-1 ability.			,		acii moue.			
SuggestedRemedy					SuggestedRe		: 4h.		:	
In 45.2.1.12.9a,	change "40GBAS	SE-T PIMA type" to	40GBASE-1 P	MA/PMD type", twice.			n short reach		ng in normal mod	e" to "If bit 1.131.0 is
In 45.2.1.14b.a,	change "25GBAS	SE-T PMA type" to	25GBASE-T P	MA/PMD type", twice.	Response			se Status C		
Response	Respons	se Status C			ACCEPT		neopone			
REJECT.										
table 45-7 and a	Il sections other t		GBASE-T only	PMD. The selection has PMA, but the usage	<i>CI</i> 45 RAN, ADEE	SC 45.2.1.6	4.2	P 39 Intel Corpora	L 39 ation	# i-25
					Comment Typ	e T	Comme	ent Status A		Maintena
Language is cor	nsistent with existi	ing 802.3 usage.								ort reach mode. The
C/ 45 SC 45	.2.1.14b.a	P 38	L 21	# i-22	way the te	ext is written	suggests th	at it only indicate	es the short reach	mode.
RAN, ADEE		Intel Corpora	tion		Is there s	omething els	se that can p	out the PHY in/ou	it of short reach m	node?
Comment Type	E Comme	ent Status A		BY alignment	SuggestedRe	medv				
802.3by does no	ot have 45.2.1.140	c.1. This reference	e should be to 45	5.2.1.14b.1.	Change "	f bit 1.131.0			t reach mode" to " Irly for a value of a	'Setting this bit to a or zero.
,	45 2 1 14c 1" to "	before 45.2.1.14b	1"		If someth	ing also with	in the stand	ard can cause so	atting short reach	mode on/off, please
Response		se Status C			indicate th				sting short reach	
ACCEPT.	Respons				Response		Respons	se Status C		
ACCELLT.					ACCEPT	IN PRINCIF	LE.			
C/ 45 SC 45 RAN. ADEE	.2.1.62	P 38 Intel Corpora	L 31 tion	# i-23	C C		, ,		y the change sug	gested.
1	ems smaller than	ent Status A		EZ occurs multiple times	"For 25GI	BASE-T and		T, setting this bit		PHY in short reach hort reach) mode.
SuggestedRemedy Correct font size	es.									
Response	Respons	se Status C								

C/ 45 SC 45.2 RAN, ADEE	2.1.78	P 41 Intel Corpora	L 51 tion	# i-26		<i>CI</i> 45 RAN, ADE	SC 45.2.7.10.5 E	P 51 Intel Corpora	L 15 ation	# i-27	
Comment Type E	Com	ment Status A			EZ	Comment	Type TR Co	mment Status A		Editorial	
Missing space be Missing period at SuggestedRemedy Change "1.25ns" Change "2.5ns" t Add period after t Response ACCEPT.	etween value a the end of this to "1.25 ns". o "2.5 ns". the last word.	nd units.				I under functio and ma rewritir especi The m equipn practic would the val Making isn't re	rstand and accept the nality, but I am uncom arked as such so that ing history to delete the ally once the strikeout eaning of bits 7.32.2 a ment may still have the ee). The amended text immediately make sor ue received in auto-ne g the specific value 1 " served and is defined,	reasons for deprecatin fortable with the way is the old functionality is past, and the new tex- text is gone. And 7.33.9 should not the mimplemented (though includes things like "b ne existing implement gotiation. reserved" or "not defin is very unusual. It is a	it is done. Usually documented. But kt may be very con be changed, since gh they might nev it 7.33.9 should a ations non-compli ned" (in Table 45-2	ining sequence deprecated text is kept this seems like nfusing to read, existing 10GBASE-T er be set to 1 in ways read zero" which ant, if the bit reads as 208) while the value 0	
				The ch may ha Suggested In 45.2 additio "The p unsupp	e description "value al nanges in clause 55 sh ave it implemented (th <i>IRemedy</i> 2.7.10.5, Keep the orig n, insert a new paragra eriodic training sequer ported by some impler this bit to one. It is red	ould also keep the ori ough they may never nal text, and insert at aph after the original t ice request functional nentations. The link pa	be requested to u the beginning "Fc ext: ity is deprecated a artner may ignore	se it). r 10GBASE-T, ". In and may be a request caused by			
						"NOTE	le 45-207, keep the ori Ethe periodic training nore a value of one in	sequence request fun	ctionality is depre	cated. Link partners	
						followii "The p	2.7.11.7, keep the origi ng paragraph: eriodic training sequer a value of one in this l	ce request functional	ity is deprecated.	,	
					"NOTE	le 45-208, keep the ori the periodic training nentations may ignore	sequence request fun	ctionality is depre	cated.		
						In Clause 55, do not delete the second paragraph of 55.3.4. Instead, change it to a (informative instead of normative) and change the text as follows:					
							During Auto-Negotia g sequence initializatio				
TYPE: TR/technical r							LI/upsatisfied 7/with		nent ID i-27	Page 7 of 47	

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: Comment ID

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request if it is received, and it is recommended not to send it. A device that receives this C/ 45 SC 45.2.7.11.2 P 53 request and does not ignore it generates a periodically repeating pattern, by reinitializing its RAN. ADEE 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 Comment Type Е 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. Response Response Status C SuggestedRemedy ACCEPT. C/ 113 SC 113.1 P 79 L 24 # i-28 Hidaka, Yasuo Fujitsu Laboratories of has been selected". Comment Type Ε Comment Status A ΕZ Response Reference to table for associated sublayers and options is given only for 40GBASE-T. ACCEPT. SuggestedRemedy Change the last sentence of second paragraph of clause 113.1 as follows: C/ 45 SC 45.2.7.11.7c Please refer to Table 105-2 and Table 80-2 for associated sublayers and options for RAN. ADEE assembling a 25 Gb/s system with the 25GBASE-T PHY and a 40 Gb/s system with the 40GBASE-T PHY, respectively. Comment Type E Response Response Status C ACCEPT. C/ 105 SC 105.2 P77 L 8 # i-29 SuggestedRemedy Hidaka, Yasuo Fujitsu Laboratories of Comment Type Е Comment Status A BY alignment Response Title of Table 105-2 includes 25GBASE-R. ACCEPT. SuggestedRemedy Change 25GBASE-R with 25GBASE in the title of Table 105-2. Response Response Status C ACCEPT. (implemented by i-176) [Editor's note added after comment resolution was complete: the resolution to comment i-176 was: '... clause correlation, 25GBASE-R' be changed to read '... clause correlation for<S>, 25GBASE-R<U> 25 Gb/s Ethernet PHYs</U>'. 1

L1 # i-30 Intel Corporation Comment Status A Maintenance In both of these long conditional sentences, the logic structure is "if (master/slave) and (complete) and if (no fault)...". The second "if" is confusing and should not be there. Also, what if either "AN complete" is 0 or "fault" is 1? Change "and if" to "and" twice in this subclause. Append the following text: "In all other cases, neither SLAVE mode nor MASTER mode Response Status C Reviewers are recommended to consider whether this impacts 10GBASE-T systems P 53 L35# i-31 Intel Corporation Comment Status A Editorial When read as 1 the bit "is used to indicate" but when read as 0 it just indicates. Also, in previous clauses 45.2.7.11.7a and 45.2.7.11.7b, bits just indicate. Comment also applies to 45.2.7.11.8 and 45.2.7.11.9. 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 Status C

55 SC 55.3.4	P 61	L 8	# i-32							
idaka, Yasuo	Fujitsu Labor	ratories of			C/ 45	SC 45.2.7.	13	P 54	L 9	# i-33
comment Type T	Comment Status A			Editorial	RAN, ADE	E		Intel Corpo	oration	
	eating pattern is deleted from the ion and a note of the change from the second s				Comment The no	51		<i>nt Status</i> A match the orig	inal content of 45.2	.7.13 (as of IEEE Draft
uggestedRemedy			P802.3	3/D3.2). The o	riginal text inc	ludes "or sent	as part of the 10GE	BASE-T and 1000BASE-		
Add a note of the cl reason of the chang	hange from prior revisions of the	e standard and a	an explanation f	or the		nology messag				a first contones sous
esponse	Response Status C									ne first sentence says Page" messages. The
	d after comment resolution was	complete:			third s T nor 4	entence again	refers to "Nex se next pages	t Page" mess ; the second s	ages. But it seems sentence refers to 2	as if neither 25GBASE-
addition, insert a ne "The periodic trainir	p the original text, and insert at w paragraph after the original to ng sequence request functionali	ext: ty is deprecated	l and may be		suppo		T or lower spe	eds with claus	nged only during tra se 28 AN, aren't the	aining; if a device e new bits included in
	ne implementations. The link pa e. It is recommended to always			sed by	I am n correc		the answer to	the above so	the proposed reme	edy may need some
	ep the original description of bit				Suggested	Remedy				
	c training sequence request fun of one in this bit. It is recomme				From	he original cor	ntent of P802.	3-2015 as the	baseline, change to	o the following text:
following paragraph "The periodic trainir	o the original text, and replace the c: ng sequence request functionali ne in this bit or have it always re	ty is deprecated			28 aut EEE te 1000B	o-negotiation s echnology mes ASE-T techno	send EEE adv ssage code as logy message	ertisement in t defined in 28 code as defir	the Unformatted Ne C.12 or as part of the ned in 28C.11. Devi	Devices that use Clause ext Page following a he 10GBASE-T and ices that use Clause 73 field of Message Next
"NOTEthe periodi	ep the original description of bit c training sequence request fun ay ignore a value of one in this	ctionality is depi	recated.		T ĔĔĔ				fined in 73A.4. 25G eld during training a	BASE-T and 40GBASE- as defined in
In Clause FF, do no	t delete the second percerces of	of EE 2 4 Instag	d obongo it to c	noto		•			nt register and the c g InfoField are show	orrespondence with the vn in Table 45-210.
	I delete the second paragraph of of normative) and change the t		u, change it to a	anole	Response	-	Respons	e Status C	-	
"NOTE During Au training sequence in request if it is receiv request and does n scrambler state afte combining 0x39A42	to-Negotiation a device may rec nitialization. This functionality is ved, and it is recommended not ot ignore it generates a periodic er every 16384 symbol periods t 22 for the 22 MSBs and SB10-S 11 LSBs, as shown in Figure 58	quest its link part deprecated; dev to send it. A dev cally repeating part to the 33-bit valu B0 from Table 5	vices may ignor vice that receive attern, by reinitia le generated by	e this es this alizing its	ACCE	PT.				
Also, delete the cha Table 55-15.	ange instructions to Figure 55-1	3, subclause 55	.3.5.3, and bit U	20 in						
	uired ER/editorial required GR)/dispatched A/accepted R/reje					U/unsatisfied	d Z/withdrawn		mment ID i-33	Page 9 of 47 2/7/2016 5:07:4

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CI 45 SC	45.2.7.14	P 55	L 2	# i-34	CI 80	SC a	80.1.4	P 69	L 50	# i-36	
RAN, ADEE		Intel Corporatio	n		RAN, ADE	E		Intel Corporati	on		
Comment Type	TR	Comment Status A		Management	Comment	Туре	т	Comment Status A			E
The "shall" i	n the next sta	tement does not hold for the	new PHYs.					-T" used as part of the definit	ion of 40GBAS	E-T is inadequate	э.
SuggestedReme	ədy				,	•		itting that is required.			
Move the se					SuggestedRemedy Change "for transmitting 40GBASE-T over" to "for data communication at 40 Gb/s						
		members of the MultiGBASI training. For these PHYs, the				, ,	ansmittin	5	ata communica	tion at 40 Gb/s ov	er".
after link is e					Response ACCE			Response Status C			
To be after t	the first sente	nce, and prepend "For all ot	ner PHYs" to t	he next sentence.							
Response		Response Status C			C/ 105		105.1.3	P 76	L 11	# i-37	
	PRINCIPLE				RAN, ADE	E		Intel Corporati	on		
	pt for" after N" to read	r the second sentence, and i d:	nsert "For all o	other PHYs, before	Comment 25GB		T s not only	Comment Status A about transmitting.			E.
register shal set exchang LP ability re process has EEE adverti	II have no effe le the EEE at gister is upda been comple sement regis	LP ability register are read-o ect. Except for 10GBASE-T, vility in the InfoField during lin ted after link is established. eted, this register shall reflect ter. The assignment of bits in with the bits in the Next Page	members of the hk training. Fo For all other for the contents the EEE link	he MultiGBASE-T PHY r these PHYs, the EEE PHYs, when the AN of the link partner's partner ability register	Suggester Chang over". Response ACCE	ge "for tr	•	g 25 Gb/s Ethernet over" to "f Response Status C	or data commu	inication at 25 Gb	/s
CI 80 SC RAN, ADEE	80.1.3	P 69 Intel Corporatio	L 36	# i-35							
Comment Type	Е	Comment Status A		EZ							
51		s serif font type.		EZ							
SuggestedReme Change font	e <i>dy</i> t to sans serif	type.									
Response		Response Status C									
ACCEPT.											

C/ 113 SC 113.1.3.1 P 84	L 34	# i-38	C/ 113	SC 113.1	P 79	L 33	# i-40
lidaka, Yasuo Fujitsu L	aboratories of		RAN, ADEI	E	Intel Corpor	ation	
comment Type TR Comment Status A		PCS	Comment	Туре Т	Comment Status A		I
The seventh paragraph of clause 113.1.3.1 "The 16 subsets" is not consistent with slide 9 of http://www.ieee802.org/3/an/public/sep04/unger	rboeck_2_0904.pdf		negotia	ation. Only look	lear that advertising lack of ing at 45.2.7.10 reveals that		
that is the basis of DSQ128 bit mapping descri 113.3.2.2.21.					and the way auto-negotiation and the way auto-negotiation and regorized and regoris		an be different, perhaps
In the above paragraphs, the four LDPC-codec bits are swapped.	bits and three KS-F		Suggested	-			
The sixth paragraph of clause 55.1.3.1 has the change.	same problem and r	needs a maintenance	0	e "advertising I egotiation".	ack of support in register 7.3	2" to "advertising	lack of support during
uggestedRemedy			Response		Response Status C		
Change the paragraph as follows: The DSQ128 constellation is partitioned into ei	ght subsets, each su	bset containing 16	ACCE	PT.			
maximally spaced 2D symbols. The three RS-F DSQ128 subset, and the four LDPC-coded-bits subset.	EC-coded bits of ea	ch 7-bit label select one	C/ 113 RAN, ADEI	SC 113.1.1 E	P 79 Intel Corpo	L 50 ation	# [i-41
esponse Response Status C			Comment	Туре Е	Comment Status A		I
ACCEPT.			4-bit ar	nd 32-bit			
Commenter is recommended to put in a mainte	enance request on cl	ause 55.	Suggested	Remedy			
/ 113 SC 113.1 P79	L 19	# i-39	Change	e spaces to hy	ohens		
AN, ADEE Intel Cor	poration		Response		Response Status C		
omment Type E Comment Status A		EZ	ACCE	PT.			
Sentence refers to many things that are define out of place.	d in this clause, not j	ust two. "Both" seems	C/ 113	SC 113.1.3	P 80	L 43	# i-42
ggestedRemedy			RAN, ADEI		Intel Corpor	allon	– <i>"</i>
Delete "both".			Comment		Comment Status A ber second" is used, later in	this subslauge or	Editor
sponse Response Status C ACCEPT.					ncy is preferred.	inis subciause ar	IU III 113.1.3.2 IUS
					s (including clause 40) the u 3d. It is a well-understood te		d, with the relevant
			Suggested	Remedy			
			Use co GBd.	nsistent units t	hroughout the draft. Prefera	bly, change to 2	GBd, 3.2 GBd , 3.2*S
			Response		Response Status C		
			Adopt	55) - change '	LE. inology within the clause. M Megasymbols per second" (
PE: TR/technical required ER/editorial required						ment ID i-42	Page 11 of 4

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: Comment ID

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C/ 113 SC 113.1.3 P 81 L 25 # i-43 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 113 SC 113.1.3.1 P 84 L 23 # i-45 RAN, ADEE Intel Corporation
Comment Type E Comment Status A EZ "two second retrain" is confusing. "Second" is a unit, and according to the style guide should be abbreviated. SuggestedRemedy EZ SuggestedRemedy Change "two second" to either "two-second" or "2 s". EZ	Comment Type E Comment Status A EZ "192, 8 bit symbols" SuggestedRemedy Change to "192 8-bit symbols". EZ
Response Response Status C ACCEPT IN PRINCIPLE. Change "two second" to "two-second"	Response Response Status C ACCEPT IN PRINCIPLE. Change to "192 eight-bit symbols" (IEEE style guide says to spell out numbers less than ten).
C/ 113 SC 113.1.3 P 83 L 1 # [i-44 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation	C/ 113 SC 113.1.3.1 P 84 L 25 # i-46 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type E Comment Status A EZ In Figure 113-3, note 2 says items are shown in dashed boxes, but the boxes are not dashed. The box pattern is almost solid hatched lines and is difficult to discern from other lines. EZ	Comment Type E Comment Status A EZ The letter "x" is used here to denote multiplication. A slanted multiplication character is used in nearby places. "x" is used again in page 98. EZ
Dashed boxes do appear in the similar Figure 113-23. This is much more clear.	Comment also applies to Figure 113-8, Table 113-7, Table 113-8, and 113.3.6.2.5 SuggestedRemedy
These boxes denote either of the optional capabilities, not just EEE.	Replace all "x" and slanted multiplication signs to the multiplication character (as in 55.1.3.1).
SuggestedRemedy Preferably, make the boxes dashed as in Figure 113-23. If not, label them "hatched boxes" instead.	Response Response Status C ACCEPT.
In note 2, change "only required for EEE" to "only required for these capabilities".	C/ 113 SC 113.1.3.1 P 84 L 30 # [i-47
Response Response Status C	RAN, ADEE Intel Corporation
ACCEPT IN PRINCIPLE. Do not change note 2. 'these capabilities' is unclear. EEE capabilities are indicated and consistent with existing 802.3 clauses. [Editor's note added after comment resolution - make boxes dashed, but do not change note 2]	Comment Type E Comment Status A PCS "The DSQ128 symbols are obtained by concatenating two time-adjacent 1D PAM16 symbols and retaining among the 256 possible Cartesian product combinations, 128 maximally spaced 2D symbols." PCS
	This sentence is a verbatim copy of a sentence in the parent clause 113.1.3 (P80 L48). These are very close pieces of text; the repetition does not seem necessary.
	SuggestedRemedy
	Delete one of the copies (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 P 84 L 40 # [i-48] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 113 SC 113.1.3.2 P 85 L 28 # [i-50] RAN, ADEE Intel Corporation
Comment Type E Comment Status A Editorial "Details of the PCS function are covered in 113.3" This sentence does not seem to belong in this paragraph, which deals with the PMA.	Comment TypeTRComment StatusAEditorialThis sentence ends with "or whether the PHY sends special PAM2 code-groups that are used in the training mode". But training mode affects the receiver behavior too. Also, data transmission (mentioned in normal mode) is disabled, but here it is not mentioned.
The former several paragraphs dealt with the PCS transmit operation (as a summary/overview). The next two paragraph summarize the receiver operation and include "The PCS functions and state diagrams are specified in 113.3".	The next sentence, "The latter occurs when either one or both of the PHYs that share a link segment are not operating reliably.", seems incorrect. Training mode is part of link creation and has nothing to do with reliablility.
Reference to the detailed description should be put at the end. SuggestedRemedy Merge the two sentences "Details of the PCS function are covered in 113.3" and "The PCS functions and state diagrams are specified in 113.3", and move the result to a separate paragraph ending this subclause. Consider moving the sentence "The interface to the PMA is an abstract message-passing	SuggestedRemedy Change from "or whether the PHY sends special PAM2 code-groups that are used in the training mode" to "or in training mode, in which it sends and receives special PAM2 code-groups and data transmission is disabled." In addition, either delete the last sentence of this paragraph, or rephrase it so it becomes
interface specified in 113.2" to this final paragraph too.	correct.
Response Response Status C ACCEPT IN PRINCIPLE. Implement suggested remedy as well as moving the sentence "The interface to the PMA" as suggested.	Response Response Status C ACCEPT IN PRINCIPLE. Implement suggested remedy, deleting the last sentence of the paragraph. ("The latter occurs reliably.")
Cl 113 SC 113.1.3.2 P 85 L 13 # [i-49] RAN, ADEE Intel Corporation	
Comment Type E Comment Status A EZ "discrete time value" can be confusing.	
SuggestedRemedy change to "discrete-time value"	
Response Response Status C ACCEPT.	

Comment Type T Comment Status A PCS 'indifield' occurs here fore the first time. It has no definition in 1.4. What is it? In 113.4.2.5 it is called 'IndeField'. Capitalization is inconsistent across this draft. Also 'Inik statup' is vague. InfoFields are used in training mode. SuggestedRemedy Provide a cross reference (113.4.2.5). Consider adding a definition in 1.4. Response Status C Accorpt in K statup' to 'In training mode'. Scan the draft for various capitalization of 'InfoField' and make them consistent. Response Response Status C CCCEPT IN PRINCIPLE Insert definition of InfoField' to 'InfoField' and make them consistent. Response Status C CACCEPT IN PRINCIPLE Intel Corporation Insert definition of InfoField' to 'InfoField' Comment Type T Change all 'InfoField' to 'InfoField' L12 # [J52] Comment Type T Comment Status A In ell Corporation Response Status C Comment Type T Comment Type T Comment Type T Comment Type T <	C/ 113 SC 113.1.3.3 RAN, ADEE	P 86 Intel Corporat	L 24 tion	# i-51		Cl 113 SC RAN, ADEE	113.1.	P 87 Intel Corpora	L 26 tion	# i-53		
In 19 and the local capitalization in inclusionation and inclusional and inclusion andificult andinclusintexincles and inclusion and inclusion and incl	51		efinition in 1.4.	What is it?	PCS						EZ	
SuggestedRemedy Provide a cross reference (113.4.2.5). Consider adding a definition in 1.4. Change 'during link startup' to 'in training mode''. ACCEPT. Change 'during link startup' to 'in training mode''. Consider adding a definition of InfoField' and make them consistent. Response Status C Response Response Status C Response Status C Intel Corporation ACCEPT IN PRINCIPLE. Instended in the rame transmitted at regular intervals containing messages for startup operation by certain PHY's (see IEEE Std 802.3 Clause 55 and Clause 113)'' Change all 'IntoField' to 'Infofield' The size no reference to this box in the note (as in Figure 113-3). Change all 'IntoField' to 'Infofield' Intel Corporation SuggestedRemedy Change all 'IntoField' to 'Infofield' Comment Status R MDI ''All 2SGBASE: T and 40GBASE: T PHY implementations are compatibility point. If that's the case, it should be resphrased. Calified the MDI as the compatibility point. If that's the 2GMIL/XLGMII.'' SuggestedRemedy Change All 40GBASE: T PHY implementations are compatibile at the MDI, and at the 2SGMIL/XLGMII.'' Calified at the MDI as the compatibility of the MDI as the compatibility of the GBASE: T PHY implementations is specified at the MDI and at the 2SGMIL/XLGMII.'' Comment Type Response Response Status C No Response Response Status C No Response Response Status C <	In 113.4.2.5 it is called "InfoFi	eld". Capitalization is	inconsistent acr	oss this draft.		••	•	ecified"				
Provide a cross reference (113.4.2.5). Consider adding a definition in 1.4. Change "during link startup" to "in training mode". Scan the draft for various capitalization of 'InfoField" and make them consistent. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Insert definition of InfoField to 1.4 (alphabetically) "InfoField" to 'InfoField to 1.4 (alphabetically) "InfoField	Also "link startup" is vague. In	oFields are used in tr	aining mode.			Response		Response Status C				
Change "during link startup" to "in training mode". Scan the draft for various capitalization of "InfoField" and make them consistent. <i>Response Status</i> C ACCEPT IN PRINCIPLE. Insert definition of InfoField to 1.4 (alphabetically) "InfoField" to "InfoField" to InfoField " to "InfoField" to InfoField " to "InfoField" to InfoField " to InfoField" to InfoField " to To comment Status R (Education and the Status R) to a after adding indication of this box in the NOT to a status C (Education and the Status R) to a state to EEE and the use of dash has already been stated.	SuggestedRemedy					ACCEPT.						
Change "during link startup" to "in training mode". RAN, ADEE Intel Corporation Scan the draft for various capitalization of "infoField" and make them consistent. Response Status C Comment Status A ACCEPT IN PRINCIPLE. Insert definition of InfoField" to 1.4 (alphabetically) In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern appears in other places in the diagram, as an interface boundary. Change all "InfoField" to 'InfoField" Comment Status R In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern appears in other places in the diagram, as an interface boundary. Change all "InfoField" to 'InfoField" Comment Status R In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern appears in other places in the diagram, as an interface boundary. Change all "InfoField" to 'InfoField" Intel Corporation Comment Status R In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern optians appear in the note (as in Figure 113-3). Coll 113 S C 113.1.5 P 87 L 12 Info Yall 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI - that is a very optimistic statement written as a fact. Motion the second the comment re	Provide a cross reference (11)	3.4.2.5). Consider add	ding a definition	in 1.4.								
Response Response Status C ACCEPT IN PRINCIPLE. Insert definition of Infolied to 1.4 (alphabetically) "Infolied - 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)" Change all "InfoField" to "Infofield" In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern appears in other places in the diagram, as an interface boundary. Change all "InfoField" to "Infofield" P 87 L 12 # [-52] Comment Type T Comment Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI" - that is a very optimistic statement written as a fact. If that's the case, it is hould be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII. Response Status C RESPONS C Response Response Status C REJECT. Response Status C C	Change "during link startup" to	"in training mode".					113.2.2			# <u>i</u> -54		
ACCEPT IN PRINCIPLE. Insert definition of Infofield to 1.4 (alphabetically) "Infofield A sixteen octet frame transmitted at regular intervals containing messages for startup operation by certain PHY's (see IEEE Std 802.3 Clause 55 and Clause 113)" Change all "InfoField" to "Infofield" C/ 113 SC 113.1.5 P 87 L 12 # [-52] RAN, ADEE Intel Corporation Response Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI" - that is a very optimistic statement written as a fact. It seems that this sentence attempts to define the MDI as the compatibility point. If that's the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMI/XLGMII. If implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMI/XLGMII." Response Response Status C REJECT.	Scan the draft for various capi	talization of "InfoField	l" and make the	n consistent.		Comment Type	Е	Comment Status A			<i>EZ</i> atch	
^a Inforfield - 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)" Change all "InfoField" to "Infofield" Change all "InfoField" to "Infofied" Comment Type T Comment Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII." SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII." Response Response Status C Response Response Status C REJECT.		onse Status C										
Change all "InfoField" to "Infofield" Comment Type T Comment Status R Mil 25GBASE-T and 40GBASE-T PHY implementations are compatibility point. If that's the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII." Response Response Status C REJECT. Response Status C	Insert definition of Infofield to		lar intervals con	taining messages	s for	There is no r	eference	to this box in the note (as in F	Figure 113-3).			
Change all 'Intorieid' to 'Intorieid' Change all 'Intorieid' to 'Intorieid' Change all 'Intorieid' to 'Intorieid' Change all 'Intorieid' to 'Intorieid' Change all 'Intorieid' to 'Intorieid' Intel Corporation Comment Type T Comment Status R Moli 'All 25GBASE-T and 40GBASE-T PHY implementations are compatibility point. If that's is a very optimistic statement written as a fact. It seems that this sentence attempts to define the MDI as the compatibility point. If that's the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII." Response Response Status C REJECT. Response Status C	startup operation by certain Pl	HYs (see IEEE Std 80	2.3 Clause 55 a	and Clause 113)"		SuggestedReme	dy					
Ch 113 SC 113.1.5 P87 L 12 # [-52] RAN, ADEE Intel Corporation MDI Comment Type T Comment Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI" - that is a very optimistic statement written as a fact. MDI MDI No note needed, these relate to EEE and the use of dash has already been stated. (Editor's note - after comment resolution - implement changing hatched pattern of this bo to a dashed line) It seems that this sentence attempts to define the MDI as the compatibility point. If that's the case, it should be resphrased. SuggestedRemedy No note needed, these relate to EEE and the use of dash has already been stated. (Editor's note - after comment resolution - implement changing hatched pattern of this bo to a dashed line) "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Response Status C Response Response Status C REJECT. Response Status C	Change all "InfoField" to "Infof	ield"				Change the	hatched p	attern of this box (only) to a c	lashed line.			
RAN, ADEE Intel Corporation Response Response Status C Comment Type T Comment Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI" - that is a very optimistic statement written as a fact. MDI No note needed, these relate to EEE and the use of dash has already been stated. It seems that this sentence attempts to define the MDI as the compatibility point. If that's the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII." Response Status C Response Response Status C No note needed, these relate to EEE and the use of dash has already been stated. Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII." Timplemented" No note needed, these relate to EEE and the use of dash has already been stated. "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Status C Response Response Status C Response Status C REJECT. Response Status C Response Response Status C	C/ 113 SC 113.1.5	P 87	L 12	# i-52		Consider add	ding indica	ation of this box in the NOTE.				
Comment Type T Comment Status R MDI "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI" - that is a very optimistic statement written as a fact. It seems that this sentence attempts to define the MDI as the compatibility point. If that's the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Response Status C REJECT.						Response		Response Status C				
the case, it should be resphrased. SuggestedRemedy Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Response Status C REJECT.	"All 25GBASE-T and 40GBAS is a very optimistic statement.	E-T PHY implementa . written as a fact.			- that	No note nee (Editor's note	ded, these e - after co	e relate to EEE and the use o			box	
Change "All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Response Status C REJECT.			ibi as the comp		1015							
"All 25GBASE-T and 40GBASE-T PHY implementations are compatible at the MDI, and at the 25GMII/XLGMII, if implemented" to "The compatibility of 25GBASE-T and 40GBASE-T PHY implementations is specified at the MDI and at the 25GMII/XLGMII". Response Response Status C REJECT.	SuggestedRemedy											
the MDI and at the 25GMII/XLGMII". Response Response Status C REJECT.	"All 25GBASE-T and 40GBAS	•	tions are compa	tible at the MDI,	and at							
REJECT.			PHY implement	ations is specified	d at							
	Response Resp	onse Status C										
		her BASE-T PHYs sp	becified in 802.3	bq.								

Cl 113 SC 113.2.2.11.1 P 96 L 9 # [i-55] RAN, ADEE Intel Corporation	Cl 113 SC 113.2.2 P 90 L 42 # i-58 Hajduczenia, Marek Bright House Network	
Comment Type ER Comment Status A PCS	Comment Type E Comment Status A	Editorial
Semantics details of the primitives are missing.	"a 4 bit control word and 32 bit data word" - adjectives made from multiple compour words should be hyphenated.	
Also in 113.2.2.12.1.	SuggestedRemedy	
SuggestedRemedy Add the values of pcs_data_mode and fr_active and their meanings (as in previous	Change to "a 4-bit control word and 32-bit data word" Scrub the rest of the draft for similar instances (there are multiple)	
primitives).	Response Response Status C	
Response Response Status C	ACCEPT IN PRINCIPLE.	
ACCEPT IN PRINCIPLE. Add pcs_data_mode values to 113.2.2.11.1	Change to "a four-bit control word and 32-bit data word".	
(after line 9)	C/ 113 SC 113.4.1 P 137 L 51 # [i-59	
The pcs_data_mode parameter can take on one of two values of the form: TRUE = PHY is in state PCS_Data (see Figure 113-30)	Hajduczenia, Marek Bright House Network	
FALSE = PCS is not in state PCS_Data (see Figure 113-30).	Comment Type E Comment Status A	ΕZ
	Test in NOTE2 is a fulls sentence, but does not have "." at the end.	
Similarly fr_active values to 113.2.2.12.1, for values: TRUE = PHY is currently performing a fast retrain	SuggestedRemedy	
FALSE = PHY is not currently performing a fast retrain	Please scrub existing NOTEs and Footnotes, and make sure that full sentences are followed by "."	e
C/ 113 SC 113.2.2 P 90 L 42 # i-56	Response Response Status C	
Hajduczenia, Marek Bright House Network	ACCEPT.	
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	C/ 113 SC 113.4.6.2 P 160 L 1 # i-60	
"and". Also, sentence finishes with "," and should with "."	Hajduczenia, Marek Bright House Network	
Suggested Remedy	Comment Type E Comment Status A	EZ
Per comment	Inconsistencies in font size and text box styles in individual state diagrams, e.g., where the state of the s	nen
Response Response Status C	comparing Figure 113-31 and Fig re 113-32	
ACCEPT.	SuggestedRemedy	
	Please align font sizes and text box styles at least within this amendment.	
Cl 113 SC 113.2.2 P 90 L 1 # i-57	Response Response Status C	
Hajduczenia, Marek Bright House Network	ACCEPT.	
Comment Type E Comment Status A EZ Dashed line in Figure 113-4, and other figures in the draft, are very dense.		
SuggestedRemedy		
Please use less dense dashed line - it is hard to distinguish continuous and dashed lines.		
-		
Response Response Status C ACCEPT.		
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr SORT ORDER: Comment ID		15 of 47 016 5:07:4

49 PM

<i>Cl</i> 113 SC 113.5.3.4 Hajduczenia, Marek	P 170 Bright House N	L 16 Network	# i-61	C/ 113ASC 113A.2P 216L 1# i-64Hajduczenia, MarekBright House Network
Comment Type E Is there any reason for the	Comment Status A Y axis title be displayed ir	n this form?		EZ Comment Type E Comment Status A E inconsistent font size in Table 113A-1
	or TP3 to TP5 in IEEE Std Response Status C			SuggestedRemedy Im Please apply proper style template and decrease font size for individual entry rows. Response Response Status C ACCEPT.
ACCEPT. Implemented as [Editor's note added after the resolution to comment Change vertical axis label	comment resolution was co i-107 was:	omplete:		Cl 113ASC 113A.3P 216L 44# i-65Hajduczenia, MarekBright House Network
C/ 113 SC 113.7.2 Hajduczenia, Marek Comment Type E Incorrect table format for T	P 178 Bright House M Comment Status A Fable 113-21	L 47 Network	# <u>i-62</u>	E Comment Status A Editorial 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 EZ 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 "
SuggestedRemedy Please apply proper style The same observation app Response ACCEPT.		mess)		SuggestedRemedy Fix the issues Response Response Status C ACCEPT IN PRINCIPLE. ON PAGES 216 and 217: Charges and dash are
C/ 113 SC 113.7.2.3 Hajduczenia, Marek	P 179 Bright House N	L 44 Network	# <u>i-63</u>	Change em-dash to dash on: P216 L50 (item c), P217 L14 (item e), P217 L16 (item f), P217 L22 (item g) Change P217 L16: "cable used for the test" to "test cable"
Comment Type T misplaced Editorial note. SuggestedRemedy Either fix reference from E	Comment Status A	n 112 14 (who		EZ Change <-> to "to" (to indicate link) Insert nonbreaking space between "30" and "m" on P217 L14
move the note to location	under said Equation 113-2 Response Status C i-100 comment resolution was c	7.		

C/ 113 SC 113.3.2. RAN, ADEE	2 P 98 Intel Corporat	L 50 ion	# i-66	<i>CI</i> 113 RAN, ADEE	SC 113.3.2.2.1	0 P 107 Intel Corpora	L 6 tion	# i-69
Comment Type E	Comment Status A		Editorial	Comment Ty	/pe ER	Comment Status A		Editorial
6x513B and 2x65B bi	ts?					oility. PHYs may support E	EE or not, but it is not	t a separate
SuggestedRemedy				standard	J.			
Delete either the B's of	or "bits".					usual term is "support". "F		
Response ACCEPT IN PRINCIF	Response Status C				like fast retratin) clause 55).	is very common in 802.3.	"EEE compliant" is so	eldom used (only
	and 2x65B bits" to "the six blo	ks of 513B trar	scoded bits and the	SuggestedR	emedy			
two blocks of 65B end	coded bits"			Change	"EEE compliant	PHYs" to "PHYs that supp	oort EEE" throughout o	clause 113.
C/ 113 SC 113.3.2.	.2.8 <i>P</i> 106	L 43	# i-67	Response		Response Status C		
RAN, ADEE	Intel Corporat			ACCEP	Т.			
Comment Type E	Comment Status A		Editorial	C/ 113	SC 113.3.2.2.1	6 P 108	L 19	# <u>i-70</u>
	nchronizing scrambler error pr rule), but should not be the r			RAN, ADEE		Intel Corpora	tion	
	crambler error propagation" this			Comment Ty	/pe GR	Comment Status A		Editorial
SuggestedRemedy				Multiple	issues with this	subclause:		
Delete "to account for	r self-synchronizing scrambler	error propagatio	on", or move it to a	1. The li	sts is not in list fo	ormat, and do not have the	e required indentation.	
NOTE.				2. Multip	le lists in the sar	ne subclause require sepa	arate numbering. The	second list should
Response	Response Status C					, the third should be a1, b2 econd list, "8-k" should us		
ACCEPT IN PRINCIP				"C={1,4}	" should have a	right curly brace.	e a minus sign instead	a or a hypen,
	r self-synchronizing scrambler	error propagatio	ות			second list, it is not clear w		rred. Should it be
C/ 113 SC 113.3.2.		L 52	# i-68			Table 113-4? Please rephr starts with "Given this," the		ructed" refer to "a
RAN, ADEE	Intel Corporat	ion		513-bit l	olock". It seems t	hat they should be preced		
Comment Type E	Comment Status A		EZ	ordered. 6 Missi		end of sentence in "c" iter	n of the third list and	the paragraph
two periods				which fo	llows ("The resul	ting translation").		
SuggestedRemedy						camples should have distir er to move the examples to		
Delete one period.						as an index, as in tx_code		
Response	Response Status C			italicized	. But j is never it	alicized and, k, C and U a	re inconsistently italic	zed.
ACCEPT.				SuggestedR	emedy			
				Address figures v		ed in the comment body, i	n this subclause and t	he tables and
				Response		Response Status C		
					T IN PRINCIPLE			
				commer	nter says a1, b2,	mmenter suggests, except c2 - it should be a2, b2, c de an example of this)		
				,		· ,		
	red ER/editorial required GR/						ent ID i-70	Page 17 of 47

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

2/7/2016 5:07:49 PM

C/ 113 SC 113.3.2.2.19 P 113 L 7 # i-71 RAN, ADEE Intel Corporation	C/ 113 SC 113.3.2.2.20 P 114 L 8 # [i-73 RAN, ADEE Intel Corporation			
Comment Type T Comment Status A PCS "The use of the auxiliary bit for vendor-specific communication is outside the scope of this document. It is highly recommended that the auxiliary bit be randomized. For the purposes of this standard it is ignored by the link partner, as are the random fill bits".	Comment Type TR Comment Status A PC "(Note that two random fill bits must be transmitted instead of zeros, and then this information is discarded upon receipt)"			
It is not clear what these sentence mean in the context of the LDPC encoder. They do not seem to be encoded. Is the encoder required or expected to use specific values or are they left to implementation choice? The decoder behavior should be stated in the decoder subclause, not the encoder subclause.	"Must" here does not seem to describe an unavoidable situation. Does it stand for a normative requirement, or a recommendation? If it is normative, how is this randomness specified? would a constant value chosen at random, and alternating 10, or a PRBS31 output sufficiently random?			
SuggestedRemedy	Would any damage occur if these bits just contain zeros?			
Delete these sentences.	would any damage occur if these bits just contain zeros?			
Response Response Status C ACCEPT IN PRINCIPLE.	Is the RS-FEC parity calculated with zeros in these two bits and then they are replac other bits? This would make these bits unprotected by RS-FEC, and may not be use implementers.			
These bits are not encoded by the LDPC encoder. The descriptive language of this section covers more than just the encoder, but also the LDPC frame	SuggestedRemedy			
Change title of 113.3.2.2.19 to LDPC framing and LDPC encoder	Delete the quoted note from this location. It only creates confusion in understanding the RS-FEC encoder.			
C/ 113 SC 113.3.2.2.19 P 113 L 8 # [i-72] RAN, ADEE Intel Corporation	If replacing the zero bits is important, make it a normative requirement, and state clearly what these bits should contain instead of zeros. For example, the output of some LFSR or a copy of previous bits. Use "shall" instead of "must".			
Comment Type T Comment Status A Editorial The text can be interpreted as if the first 1536 bits of the payload are RS-FEC encoded and the final 1732 are LDPC encoded. But Figure 113-8 (which is not referenced here) and	Alternatively, make it a recommendation to replace these bits by implementation- dependent arbitrary bits, and add a note that the arbitrary bits are not protected by RS-FEC			
subclause 113.3.2.2.20 (also not referenced here) suggest a different division scheme.	Response Response Status C			
113.3.2.2.20 does define how the RS-FEC codeword is constructed, but figuring out the LDPC construction is difficult, and the way this is shown is quite confusing.	ACCEPT IN PRINCIPLE.			
SuggestedRemedy	Change to read "(It is highly recommended that two random fill bits be transmitted instead"			
State clearly in the text how the LDPC 1723-bit payload is constructed from the 513B and 65B blocks, similar to the RS-FEC payload construction details in 113.3.2.2.20.				
Align the text with Figure 113-8 if necessary.				
Response Response Status C				
ACCEPT IN PRINCIPLE. Existing text is similar in construction to uncoded and LDPC encoded bits in clause 55 which has been clearly understood.				
Add on line 10 (after "in Annex 55A.") "See Figure 113-8 and subclause 113.3.2.2.20 for details on PCS bit ordering and RS-FEC encoding."				

C/ 30 SC 30.5.1.4 Marris, Arthur	.4 P 30 Cadence Design	L 43 n Syst	# [i-74	C/ 113 SC 113.3.3 RAN, ADEE	P 120 Intel Corporatio	L 4 m	# i-76	
Comment Type TR Make consistent with	Comment Status A modifications in 802.3by		BY alignment	Comment Type E C Missing terminating period	omment Status A			ΕZ
SuggestedRemedy Delete editors note.				SuggestedRemedy Add a period after "113.5.2'				
Ũ	he eighth paragraph and not the			Response Re ACCEPT.	esponse Status C			
Link Fault Signaling s Interruption map to the	Bb/s the enumerations map to va tate diagram (Figure 46-11) as for e enumeration "available", the va ilable" and the value Remote Fa	ollows: the value alue Local Fault	s OK and Link maps to the	C/ 113 SC 113.3.4 RAN, ADEE	P 120 Intel Corporatio	L 18 m	# [i-77	
fault".				Comment Type E C	omment Status A			ΕZ
making it consistent of Link Interruption.	th paragraph in proposed respon vith IEEE Std 802.3-2015 (applie er the sixth paragraph, and befo	es to 40Gb/s) and		sometimes isn't. Likewise, sometimes is and sometime	at appears in italics, but ir Scr is not italicized (not a v es isn't. licized in the figure within	inconsistent both internally and with s distract rather than help. in the figure it sometime is and a variable) in the text, but in the figure it n "n-1", it looks like the letter I.		
C/ 113 SC 113.3.2 RAN, ADEE	.3 P 118 Intel Corporation	L 16 n	# i-75	The word "otherwise" is in it		ariable		
Comment Type E	Comment Status A		EZ	SuggestedRemedy				
		te seguence or		Make the variable "n" alway	a italiaizad in Eigura 112 1	15		
"the receive process	inserts idles, delete idles, or dele	te sequence on		mate the valuate in amay	s italicized in Figure 113-1	10.		
Inconsistent verb for				If "Scr" is a variable then m	ake it consistently italicize	d (and likewise		in
Inconsistent verb forr SuggestedRemedy					ake it consistently italicize	d (and likewise		in
Inconsistent verb forr SuggestedRemedy Change to	n.	·		If "Scr" is a variable then m	ake it consistently italicize text; otherwise make it co	d (and likewise		in
Inconsistent verb forr SuggestedRemedy Change to		·		If "Scr" is a variable then m the figure and in the clause Make everything else Roma	ake it consistently italicize text; otherwise make it co	d (and likewise		in

0.440	D. (a)	1.40	"	0.449	00 440 0 0	D (1.04	11 1 2 1
C/ 113 SC 113.3.4.3 RAN, ADEE	2 P 121 Intel Corporation	L 18	# i-78	C/ 113 RAN, ADEE	SC 113.3.6.	2.2 P 125 Intel Corpora	L 34 ation	# <u>i</u> -81
Comment Type T "If requested by the lir 16384 periods"	Comment Status A ak partner, the PCS shall reset	the training mo	PCS ode scrambler every		that both LDI	Comment Status A PC and RS-FEC should be h rror" for the RS-FEC is not c		
SuggestedRemedy Delete the second ser Response	precated for 10G. Should it exintence. Response Status C upposed to have been removed			non-expe corrected might not To align	rt reader. Als l, and that un check the sy with the LDP0	thad no more than t=3 8-bit co, it is not clear that errors the corrected errors must be ide undrome after a correction at C definition, the RS-FEC def ctablity) of the codeword.	hat are not uncor entified as such (s etempt).	rectable are actually come implementations
C/ 113 SC 113.3.5 RAN, ADEE	P 122 Intel Corporation	L 4 on	# [i-79	SuggestedRe Change '	emedy valid if:" to "v	alid if both:"		
detailed description of SuggestedRemedy Add "R" under the "ref	er in a note in the figure or in th <i>Response Status</i> C LE.			b. The R Response ACCEPT Change ' Change i	IN PRINCIP valid if:" to "v tem b to read	l bits form a valid RS-FEC co <i>Response Status</i> C LE. valid if both:		deword.
Cl 113 SC 113.3.6. RAN, ADEE Comment Type TR "when the lfer_cnt exc so it cannot exceed 16 SuggestedRemedy Change "excceeds" to	2.2 P 126 Intel Corporatio Comment Status A eeds 16" - but Ifer_cnt is define 5. Figure 113-17 sets hi_lfer to "reaches".	ed as "Count u	# [<u>i-80</u> PCS p to a maximum of 16"					
Response ACCEPT. Commenter is sugges exists.	Response Status C	est on clause 5	5, where the same text					

CI 113 SC 113.3.6.2.2 P 127 L 5 # i-82 RAN, ADEE Intel Corporation	C/ 113 SC 113.3 RAN, ADEE	7.2 P 136 Intel Corporation	L 42 # [i-84
Comment Type T Comment Status A Management There is no reference to register 1.147.2 in this draft. It appears in the base document but only points to the variable list in clause 55. A reference to clause 133 should be added. Management	tx_lpi_alert_active=	Comment Status R 113-22, during SEND_WAKE we hav false (deasserted in this state) se (deasserted in SEND_ALERT)	/e:
In addition, it would be better to define the functionality here, not just in clause 45. Since MDIO is optional, other means to access this variable may be provided.	So according to the SEND_WAKE.	definition of lpi_tx_mode, we get lpi_t	tx_mode=QUIET during
Similar issue exists for fr_enable (1.147.0) in 113.4.5.1. it is defined in 45.2.1.79.6 and does not reference clause 113.	That does not seem	o correct, although the corresponding	diagram in Figure 55-20 is similar.
SuggestedRemedy	SuggestedRemedy		
Change the first paragraph of the definition to: "If fast retrain is supported, this variable controls the block type the PMA sends on the		active should be asserted to true in S g. But perhaps something else should	
receive path during fast retrain. if MDIO is supported, this variable is set based on the value in 1.147.2:1 as follows".	Response	Response Status C	
Append a paragraph: "If MDIO is not supported, an equivalent method of controlling fast retrain functionality should be provided". Bring in 45.2.1.79.5 and add a reference to 113.3.6.2.2.	transmit mode, whe	Ipi_qr_active is A Boolean variable the in the PHY is transmitting quiet-refres is not a quiet-refresh signal. It is comp /65B blocks) of Idle (/I/) signals.	h signaling. Set false otherwise.
Apply similar change to 45.2.1.79.6 and 113.4.5.1.		, , , , ,	
Response C Response Status C ACCEPT.	C/ 113 SC 113.4 RAN, ADEE	2.2 P 138 Intel Corporation	L 40 # i-85
	Comment Type T	Comment Status A	E
C/ 113 SC 113.3.6.2.3 P 127 L 17 # i-83	"An EEE-capable P	HY shall operate with loop timing whe	en configured as SLAVE"
RAN, ADEE Intel Corporation Comment Type T Comment Status A PCS Ifer_timer implies the triggering frames error ratio for 40G is equal to that of 10G (clause 55	SLAVE side, regard	edundant in this clause, since loop tim lless of EEE support. (In clause 55, S tence seemed to be an exception. Bu	LAVE could work without loop
uses 125 us). What about 25G?	SuggestedRemedy		
SuggestedRemedy	Delete this sentenc	е.	
Change 25/4 to 25/(4S) (S italicized).	Response	Response Status C	
Response Response Status C	ACCEPT.		
ACCEPT IN PRINCIPLE.			

C/ 113 SC 113.4.2.2.1 P 139 L 3 # [i-86 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	CI 113 SC 113.3.4.2 P 121 L 24 # i-87 RAN, ADEE Intel Corporation
Comment TypeTComment StatusAEEE"will" seems to be a normative requirement here.	Comment TypeEComment StatusAPCSInfoField is mentioned here but it is defined only much later, in 113.4.2.5.
SuggestedRemedy Change "will" to "shall".	SuggestedRemedy Add a cross-reference to 113.4.2.5.
Response Response Status C ACCEPT. (implemented by i-89) [Editor's note added after comment resolution was complete: the resolution to comment i-89 was:	Response Response Status C ACCEPT IN PRINCIPLE. Definition added to 1.4 by comment i-51 [Editor's note added after comment resolution was complete:
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	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)"
P148 L14 change "must set" to "sets" P92 L24, P110 L1, L4, and L13, P124 L4 change "will be" to "is"	Change all "InfoField" to "Infofield"]
P127 L18 delete "will" to read "When the timer reaches its terminal count, Ifer_timer_done = TRUE".	C/ 113 SC 113.4.2.5.11 P 146 L 46 # i-88 RAN, ADEE Intel Corporation Intel Corporatio
 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" 	Comment Type E Comment Status A PCS Does tilde-equal means "not equal"? 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) C C
P130 L8, L9 - change "may not" to "are not guaranteed to be" (L8) and "are not guaranteed to" (L9) to" (L9) P149 L35 change "may not be" to "are not" to read: "The THP coefficients and PBO setting	
P149 L35 change may not be to are not to read. The true coencients 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"]	

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: Comment ID

		IEE	E P802.3bq	D3.0 25G/40GBASE-T E	thernet Initial Sponsor ballot comm			
C/ 0	SC 0	Р	L	# i-89	= TRUE".			
RAN, ADE	E	Intel Corpor	ation		P139 L3 delete "will"			
"the requir and	tyle manual says use of the word r ements; must is u	Comment Status A nust is deprecated and sha ised only to describe unave to indicate a course of acti	bidable situations	5"	P150 L36 and L37 change "will" to "s bypass for fast retrain the PHY shall Otherwise the PHY shall keep its TH and send PAM2 signaling within a tir update PICS.			
	ard (may s is permitted to)"				P178 L6 change "will be used to refe			
		age of the word "will" and	says "will is only	used in statements of	P92 L18 replace "may take on" with P92 L19 replace "may additionally ta			
does	not describe an ur	rs in the draft in P114 L2, I navoidable situation, and so pears in some places not a	eems to be a ma	andatory requirement.	P130 L8, L9 - change "may not" to "a to" (L9)			
The w with "i	ord "may" is found s permitted to". In	d in numerous places but s ı (P92 L18, P126 L25) it se	sometimes has a ems to be a nor	a meaning inconsistent mative statement (listing	P149 L35 change "may not be" to are not changed during PMA_Fin			
part o reaso	f "may not" which n for this commen	lues, others values are not is inconsistent (optional vs it being TR. In (P171 L17, bility or to natural phenome	s. prohibitive) and P176 L14, P195	d confusing - this is the	P171 L17, P176 L14, P195 L27 cha P195 L19 and P197 L10 change "ma P195 L26 delete "may"			
					C/ 113 SC 113.4.5.1			
		done in 802.3bx to clean the next revision if this ame			RAN, ADEE			
Suggestee	dRemedy				Comment Type E Comment			
Acros	s the draft, chang	e "must" and "will" to "shall	l" or rephrase as	necessary.	Inconsistent right margin and justification be present where they should not.			
	c usage of the wor or rephrase as nee	rd "may" in the listed location cessary.	ons and replace	to "can", "shall", "shall	SuggestedRemedy Apply paragraph formatting suitable			
Response		Response Status C			Response Response			
P114 (Edito that tv that tv P122	r's note added aft vo random fill bits vo random fill bits L24 describes a c	E. i-73 to remove "must" er comment resolution: Re must be transmitted instead be transmitted instead") lesired state, not a requirer e this. Delete "must" on P	ad" to read "(If	t is highly recommended	ACCEPT.			
P148	L14 change "mus	t set" to "sets"						
P92 L	24, P110 L1, L4, a	and L13, P124 L4 change	"will be" to "is"					
P127	L18 delete "will" to	o read "When the timer rea	iches its termina	l count, lfer_timer_done				
COMMEN		patched A/accepted R/rej		ed T/technical E/editorial G/g DNSE STATUS: O/open W/wr	jeneral itten C/closed U/unsatisfied Z/withdrawn			

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

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

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

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

5 change "may not be" to "are not" to read: "The THP coefficients and PBO setting hanged during PMA_Fine_Adjust."

7, P176 L14, P195 L27 change "may" to "can" 19 and P197 L10 change "may be" to "are" 26 delete "may"

C/ 113	SC 113.4.5	5.1 <i>P</i> 153	L 39	# i-90
RAN, ADE	E	Intel Corporati	on	
Comment	Туре Е	Comment Status A		Editorial
Incons	sistent right ma	rgin and justification for the vari	able definitions	s. Line breaks seem to

ent where they should not.

ragraph formatting suitable for list of variables as in other lists in this draft.

Response Status C

Comment ID j-90

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RAN, ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type GR Comment Status A EZ Figure title includes "need to update". What does it mean? SuggestedRemedy Does the frequency variation requirement also apply to SLAVE PHYs? SuggestedRemedy Update what's needed, and delete this part of the title. Comment Type R Comment Type R Comment Type R Comment Status R Response Response Response Status C Specifically, since asymmetric LPI operation is possible, the SLAVE clock reduct on has no clock to track for extended periods when the MASTER is in LPI? Holding the open-loop frequency with the MASTER is in LPI? Holding the open-loop frequency op pm/second of the closed-loop frequency seems challenging. I don't see and specified for the slave. CI 113 SC 113.5.3.4 P 170 L 18 # [+92] RAN, ADEE Intel Corporation EZ Comment Type E Comment Status A EZ They axis label is written vertically with horizontal letters, and the plot seems to be hand-drawn. Compare to figure 55-37. EZ SuggestedRemedy Redraw figure as vector plot with thinner lines, set y-axis title correctly. Response Response Status C Rector T IN PRI																	
Figure title includes "need to update". What does it mean? SuggestedRemedy Update what's needed, and delete this part of the title. Response Response Status C ACCEPT. Delete "(need to update)" update was completed long ago. C/ 113 SC 113.5.3.4 P 170 L 18 # i-92 RAN, ADEE Intel Corporation Ezz Comment Type E Comment Status A Ezz The y axis label is written vertically with horizontal letters, and the plot seems to be hand-drawn. Compare to figure 55-37. Ezz SuggestedRemedy If such as the corporation Ezz Response Response Status C Ezz Accept IN PRINCIPLE. Pito is embedded Excel. Y axis fixed by comment i-107 Ezz	# i-93	# i-9;			,	113.5.3.5				# i-91	21				113.5.2.1		
Update what's needed, and delete this part of the title. Response Response Status C ACCEPT. Delete "(need to update)" update was completed long ago. C/ 113 SC 113.5.3.4 P 170 L 18 Figure Intel Corporation Comment Type E Comment Type Intel Corporation SuggestedRemedy If state that it only holds for MASTER is not the second paragraph, state it expl If not, state that it only holds for MASTER in LPI. If anything is required from SLAVE, please address	EEE	Ys?	to SLAVE PHY						EZ			t mean?			-		
RAN, ADEE Intel Corporation MASTER is going in and out of LPI. Comment Type E Comment Status A EZ The y axis label is written vertically with horizontal letters, and the plot seems to be hand-drawn. Compare to figure 55-37. EZ SuggestedRemedy If SLAVE is subject to the specifications in the second paragraph, state it expl SuggestedRemedy Response Response Status C If not, state that it only holds for MASTER, and specify separately what is required from SLAVE, please address how it can be validated. Response Response Status C If anything is required from SLAVE, please address how it can be validated. Response Response Status U REJECT. Commenter does not provide specific sufficient remedy.	LPI. The Jency/phase y within 0.1	TER is in LPI. The frequency/ frequency with	when the MASTE ime. What are the the open-loop free	or extended periods whing clock during that tir R is in LPI? Holding th	o track for e loop-timing MASTER i	no clock to as to use lo when the l of the close	tion has VE TX h irements scond	f S r F					se Status C	Respon	's needed,	ate what's e EPT.	Upda Response ACCE
The y axis label is written vertically with horizontal letters, and the plot seems to be hand- drawn. Compare to figure 55-37. SuggestedRemedy Redraw figure as vector plot with thinner lines, set y-axis title correctly. Response Response Status C ACCEPT IN PRINCIPLE. Plot is embedded Excel. Y axis fixed by comment i-107 Note: The y axis fixed by axis fixed	ncy when	/E frequency w	nt of the SLAVE							# i-92	18				113.5.3.4		
Response Response Status C If anything is required from SLAVE, please address how it can be validated. ACCEPT IN PRINCIPLE. Response Response Status U Plot is embedded Excel. Y axis fixed by comment i-107 REJECT. Commenter does not provide specific sufficient remedy.				r MASTER, and specif	holds for M	subject to th	_AVE is a			ems to be h	າd the plot ຣ	letters,		en vertical	bel is writte bare to figu	y axis lat n. Comp	The y drawr
This is the exact text in clause 55 and was not misunderstood. A slave which keep timing would fail BER and other requirements of the clause. Experts in t	ch does not	slave which doe	edy. nderstood. A sla	pecific sufficient remed	<i>Respons</i> provide spect	does not pr	se ECT. Inmenter	Resp F C			correctly.		se Status C	<i>Respon</i> E.	PRINCIPLI	e EPT IN F	Response ACCE

C/ 113 S	C 113.5.4.3	P 171	L 22	# i-94	C/ 113	SC 113.7.2	3	P 179	L 44	# <u>i-96</u>	
RAN, ADEE		Intel Corporat	ion		RAN, ADEE			Intel Corporat	ion		
Comment Type	TR Co	omment Status A		EMI test	Comment T	ype G	Comme	ent Status A			ΕZ
enclosures		ground reference plane the same connection? o			Also, it	state that res		n number different bected in Septemb			r.
SuggestedRem					SuggestedF	-				4	-1 :6
	ord to clarify.					orrect the hu ment is still i		e the note hear the	equation. Upda	te the expected da	ate if
Response	Re	sponse Status U			Response		Respon	se Status C			
	N PRINCIPLE. ed in comment i-1	39				T IN PRINCI leted by com					
the resolution	on to comment i-	mment resolution was o 139 was: that are exposed to the	·	hould remain over the	the reso	note added olution to com editor's note		nt resolution was o vas:	omplete:		
ground refe	erence plane."				C/ 113	SC 113.11		P 196	L 27	# i-97	
]					RAN, ADEE			Intel Corporat		# 1-51	
C/ 113 S	C 113.5.4.5	P 172	L 38	# i-95	Comment T	ype TR	Comme	ent Status A		Archite	tecture
RAN, ADEE		Intel Corporat	ion							rates, the calculati	
Comment Type Requirement	-	omment Status A mode do not exclude d	operation with lo	Short reach mode nger cables (as	5 (shou		to include 4	OGBASE-T) and E		quation 80-1, Table able 105-3 (which	
	,	n be interpreted as if sh	ort reach mode	only adds another set	SuggestedF	Remedy					
of requirem	ients.				Refer to	the suggest	ed tables and	d equations.			
	ne intent is that in its are in effect.	short reach mode only	the shorter read	ch link segment	Add edi	ting instructio	ons to add the	e BASE-T PHYs to	the tables.		
SuggestedRem	edy				Response		Respon	se Status C			
State in 113 mode.	3.5.4.1 that the re	equirements in that subo	clause hold only	when not in short reach	ACCEP [Editor's already	note (after d	omment res BASE-T, an	olution was comple d needed no chang	ete) - Table 105-3 ge to the draft]	3 in 802.3bq D3.0	
Alternativel not hold.	y, state in 113.5.	4.5 that in short reach n	node the require	ments of 113.5.4.1 do							
Consider m	erging these two	subclauses.									
Response	Re	sponse Status C									
Add to 113	N PRINCIPLE. .5.4.5, (at end). ating in short rea	ch mode, only operatior	n over the direct	attach link segment							

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: Comment ID

Comment ID i-97

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					-					
CI 78 SC 78.		L 8	# i-98	C/ 113	SC 113.7.2		P 179	L 45	# [i-100	
Zimmerman, George	Aquantia, an	d CommS		Zimmerm	ian, George		Aquantia, and	d CommS		
Comment Type E	Comment Status A		BY alignment	Commen	t Type E	Comment S	tatus A			ΕZ
0	h should reference that this edit is	on the text WITH	HOUT the modifications	Edito	r's note on ISO I	Return Loss is no	longer releva	ant		
in IEEE Std 802.3	3by-201X.			Suggeste	edRemedy					
SuggestedRemedy				Delet	e editor's note					
	struction so it reads, "Change tex EEE Std 802.3by-201x) as follows		3.3.1 (shown without	Response		Response Si	atus C			
Response	Response Status C			ACC	EPT.					
ACCEPT IN PRI	NCIPLE. EE Std 802.3by-201x (see comme	ent i-180)		Cl 45 Zimmerm	SC 45.2.1.6 an, George		P 38 Aquantia, and	L 37 d CommS	# i-101	
the resolution to o [1] The editor's no [2] The editing ins modified IEEE St [3] Based on IEE greater' be cha [4] Based on IEE Gb/s.' be change [5] Based on IEE	led after comment resolution was comment i-180 was: but on line 6/7 be deleted. struction should be updated to read d 802.3by-201X) as follows:'. E P802.3by draft D3.0 the text ' inged to read ' an operating spe E P802.3by draft D3.0 the text ' d to read ' with an operating E P802.3by draft D3.0 the text ' inged to read " with an operating	d 'Change text in an operating spe ed of 25 Gb/s or with an operating ed of 10 Gb/s or with an operating	eed of 40 Gb/s or greater' on line 12. g speed less than 40 below on line 15. g speed of 40 Gb/s or	mark Suggeste Chan 113.4 startu has b	edRemedy ge "When read a 1.2.5 has been c up protocol defin been completed, 55G/45GBASE-T e	as a one, bit 1.12 ompleted" to: "W ed in 55.4.2.5 (fo " and show appro	as dropped o 9.0 indicates hen read as a r 10GBASE-1 priate underli	that the startup a one, bit 1.129.(Γ) or 113.4.2.5 (f	hout even change protocol defined ir) indicates that the or 25G/45GBASE GBASE-T) or 113.	-Т)
C/ 113 SC 113	.3.2.2 <i>P</i> 118	L 11	# i-99	C/ 45	SC 45.2.7		P 49	L 49	# i-102	
Zimmerman, George	Aquantia, an	d CommS		Zimmerm	an, George		Aquantia, and	d CommS		
Comment Type E	Comment Status A		EZ	Commen	t Tvpe E	Comment S	tatus A			ΕZ
	s 25GMII, although it also speak				51	ed row needs to I				
	form the 25GMII signals RXD<31: RXC<7:0> for 40GBASE-T,"	0> and RXC<3:0	D> for 25GBASE-1 or	Suggeste	dRemedy		,			
SuggestedRemedy				00		eserved row" to t	ne editing inst	truction.		
,	e XLGMII signals" after 25GBASI	E-T. so it reads: '	"rx_coded<64:0> which	Respons		Response S	U			
is then decoded t	o form the 25GMII signals RXD< Is RXD<63:0> and RXC<7:0> for	31:0> and RXC<		ACC		Nesponse of				
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: Comment ID

CIO SCO	P 49	L 3	# i-103	C/ 113 SC 11	3.4.5.1	P 155	L 6	# <u>i-106</u>
Zimmerman, George	Aquantia, and	d CommS		Zimmerman, George	e	Aquantia, an	d CommS	
Comment Type E	Comment Status A		EZ	Comment Type	E Co	omment Status A		EZ
Table 45-119, entry fo SuggestedRemedy	r register 3.21, EEE control a	nd capability 2 is	s missing		13.2.2.5)" ob	viously means to refer		A_SCRSTATUS.request 5, not SCRSTATUS, and
add entry for register 3	3.21 to Table 45-119			SuggestedRemedy				
Response ACCEPT.	Response Status C			,		PCSTATUS and 113.2 CSSTATUS).	.2.5 cross refere	ence with 113.2.2.6
C/ 45 SC 45.2.3.1 Zimmerman, George	2 P 43 Aquantia, and	L 4 d CommS	# i-104	Response ACCEPT.	Re	sponse Status C		
Comment Type T Need to specify how th	Comment Status A	elected	Management	C/ 113 SC 11 Zimmerman, George	3.5.3.4	Р 170 Aquantia, an	L 16 d CommS	# <u>i-107</u>
in 45.2.3.1." after "retu	the loopback is selected by th Irn it on the receive path." (se			Comment Type Figure 113-39 v are.		omment Status A abel is stacked, vs. rota	ated as most oth	
Insert: "The speed of t in 45.2.3.1." after "retu is required)	urn it on the receive path." (se			Figure 113-39 v are. SuggestedRemedy	ertical axis la	abel is stacked, vs. rota	ated as most oth	
Insert: "The speed of t in 45.2.3.1." after "retu is required) Response				Figure 113-39 v are.	ertical axis la	abel is stacked, vs. rota	ated as most oth	E2 ner similar 802.3 plots
Insert: "The speed of t in 45.2.3.1." after "retu is required)	urn it on the receive path." (se			Figure 113-39 v are. SuggestedRemedy Change vertical Response	ertical axis la axis label to	abel is stacked, vs. rota	ated as most oth	
Insert: "The speed of t in 45.2.3.1." after "retu is required) Response	urn it on the receive path." (se	e 802.3bz draft [·] <i>L</i> 31		Figure 113-39 v are. SuggestedRemedy Change vertical	ertical axis la axis label to	abel is stacked, vs. rota	ated as most oth	
Insert: "The speed of f in 45.2.3.1." after "retu is required) Response ACCEPT. C/ 113 SC 113.4.1 Zimmerman, George Comment Type E	urn it on the receive path." (se Response Status C P 137	<i>L</i> 31 L CommS	1.2 if further guidance # [i-105 EZ	Figure 113-39 v are. SuggestedRemedy Change vertical Response	ertical axis la axis label to	abel is stacked, vs. rota	ated as most oth	
Insert: "The speed of f in 45.2.3.1." after "retu is required) Response ACCEPT. C/ 113 SC 113.4.1 Zimmerman, George Comment Type E	urn it on the receive path." (se Response Status C P 137 Aquantia, and Comment Status A	<i>L</i> 31 L CommS	1.2 if further guidance # [i-105 EZ	Figure 113-39 v are. SuggestedRemedy Change vertical Response	ertical axis la axis label to	abel is stacked, vs. rota	ated as most oth	

C/ 113 SC 113.7.1	P 178	L 25	# i-108		C/ 113		13.7.1		P 178	L 25	# i-109
Rossbach, Martin	Nexans Cana	da Inc.			Rossbach,				Vexans Cana	ada Inc.	
3200MBaud. For Cabli upper frequency. Rede	Comment Status R uces Scaling factor for PCS, ng we need the Scaling facto fine Scaling factor for 25GBA	r to be 0.5 as we	o be 0.625 of e start with 2000N	Cabling IHz	Suggested	ass FA Remedy	/	Comment St ASE-T Cabling	Types	em used to supp	Cabling
	For Cabling system characteri g parameter S =0.5 is used."	stics for 25GBA	SE-T described ir	n this	require 21. The	s 4-pair e cabling	balance	d cabling with a used to suppor	nominal imp t 25GBASE	bedance of 100 0 T requires 4-pai	Table 113- r balanced cabling with on other classes of
Response REJECT. No consensus to chan Straw Poll: I support the comment Y: 6 N: 16 A: 8	Response Status C ge. er's suggested remedy with e	ditorial license:			Additio a) 40G connec b) 40G addition c) 25G PHY er d) 25G	nally: BASE- Ct PHY 6 BASE- nal trans BASE-T ntities. BASE-T	T uses ba entities. T is an ap smission T uses ba	alanced cabling oplication of the requirements s lanced cabling	balanced in Tat balanced ca pecified in th listed in Tab balanced ca	iis subclause. le 113-22 in a s bling listed in Ta	
0.6: Y: 7 N: 15 A: 6 Motion #6	er's suggested remedy with e				[Editor' the res No con	sensus s note a olution t sensus	added aft to comme	Response Sta this change to er comment res ent i-10 was: ie the draft.	the draft. (se	e comments i-10 complete:	0 and i-11)
Move to reject this con T, except 2.5GBASE-T M: Valerie Maguire S: Martin Rossbach Y: 6 N: 13 A: 8 MOTION FAILS (Tech		tn above Nyquis	st is required for B	A9E-	referen	ort the c iced file		torial license to		luding both page ore recent parall	es 3 & 4 of the lel changes to the draft
Motion 7: Reject the comment as comment. M: Chris Diminico S: Peter Jones Y: 18 N: 6 A: 2 MOTION PASSES (Te	s there is no consensus to ch chnical >= 75%)	ange the curren	t draft based on th	nis	Y: 14 N: 9 A: 3 The ed there w be prop	brt rejec litor ask vere nor posals a	ed wheth ne. The e	ditor then aske	d whether th		solve the comment - to believed there would one.

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: Comment ID

Comment ID i-109

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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
- A:9

Straw Poll:

I support rejecting this comment

Y: 10

N: 7

A: 7 1 C/ 113 SC 113.7.2 P 178 L 39 # i-110 Nexans Canada Inc. Rossbach. Martin Comment Type **TR** Comment Status R Cabling Add Table 113-22 for 25GBASE-T Cabling Types including Class FA SuggestedRemedy Link segment transmission parameters A link segment consisting of up to 30 m of cabling that meets the transmission parameters of this subclause provides a reliable medium. The transmission parameters of the link segment include insertion loss, delay parameters, nominal impedance, NEXT loss, ACRF, and return loss. In addition, the requirements for the alien crosstalk coupled "between" link seaments 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 Cabling Supported link segment distances Cabling references ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3

Response

Response Status U

CLASS FA 30 m ISO/IEC 11801-1 Edition 3 up to 30m / ISO/IEC TR 11801-9905

REJECT.

Category 8 30 m ANSI/TIA-568-C.2-1

No consensus to make this change to the draft. See comment i-10 and i-11

[Editor's note added after comment resolution was complete: the resolution to comment i-10 was: No consensus to change 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:8
- N:10 A: 9

-

Straw Poll:

I support rejecting this comment

- Y: 14
- N: 9

A: 3

The editor asked whether there were any additional proposals to resolve the comment - there were none. The editor then asked whether there were any who believed there would

Comment ID i-110

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be proposals after the lunch break or at this meeting - there were none.	Cl 113 SC 113.3.2.2.9 P 106 L 53 # [i-112
the resolution to comment i-11 was:	Donahue, Curtis
No consensus to make this change to the draft	Comment Type E Comment Status A EZ
Straw Poll:	Extra "." at end of sentence
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	SuggestedRemedy
(e.g., 'star topology' language).	delete.
Y:7 N:8	Response Response Status C
A:9	ACCEPT. Implemented by comment i-68
Straw Poll: I support rejecting this comment Y: 10 N: 7_	[Editor's note added after comment resolution was complete: the resolution to comment i-68 was: Delete one period.]
A: 7 1	C/ 113 SC 113.4.2.3.1 P 140 L 26 # i-113
	Donahue, Curtis
C/ 113 SC 113.7.2.3 P 179 L 35 # [i-111 Rossbach, Martin Nexans Canada Inc.	Comment Type E Comment Status A EZ
Comment Type T Comment Status D Cabling	. at the end of the sentence should be ":".
Merge lines for 1000 <f<1250mhz 1250<f<1600mhz.="" and="" is="" it="" requirement.<="" same="" td="" the=""><td>SuggestedRemedy See comment.</td></f<1250mhz>	SuggestedRemedy See comment.
SuggestedRemedy	Response Response Status C
Delete line 35. Change Formula to show a 8dB requirement from 1000MHz to 1600MHz (for 40GBASE-T)	ACCEPT.
Proposed Response Response Status Z	C/ 113 SC 113.4.2.4 P 141 L 39 # [i-114
REJECT.	Donahue, Curtis
This comment was WITHDRAWN by the commenter.	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".
The equation addresses both 25GBASE-T and 40GBASE-T. 25GBASE-T is not specified >1250 MHz.	SuggestedRemedy Change second "BI_DB" to "BI_DD".
	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: Comment ID

.5 P 142	L 32	# i-115	C/ 113	SC 113.5.4.3	P 171	L 32	# i-118
			Donahue, Cu	urtis			
			Change	"6dBm" to "6 d	Comment Status A Bm".		EZ
				-	ace).		
		following sentence	Response		Response Status C		
Response Status C			ACCEP	Т.			
			C/ 113	SC 113.7.2.4	P 179	L 50	# i-119
.1 <i>P</i> 155	L 19	# i-116	Donahue, Cu	urtis			
				•	Comment Status A		Cabling
Comment Status A P_next starts with "THP is a v	ariable that contai	EZ ins". Should it be	acronym	n of ACRF as "a	attenuation to crosstalk ratio		
			SuggestedR	emedy			
	me issue occurs ir	the THP_tx definition.					n would be to change
Response Status C			Response ACCEP ⁻	T IN PRINCIPL	Response Status C E.		
			Change	the definition ir	n 1.5 to "attenuation to cross	stalk ratio, far-enc	1.
.1 P 168	L 21	# i-117	CI 112	SC 112 8 2 2	P104	1	# i-120
					/ 134	L	# 1-120
			,		Comment Status		F
assuming "(need to update)			Change	"Test- Mode 5"	' to "Test mode 5" to be con	sistant with other	instances of "test
			SuggestedR	emedy			
o update)". And additionally u	pdate the figure a	ppropriately if	See com	nment.			
_			Response		Response Status C		
Response Status C			ACCEP	Т.			
ment i-91							
	•						
	denoted IF. While there is no "InfoField" is twice in the folk e "The InfoField is also denot ' to "InfoField" and "InfoFields Response Status C .1 P 155 Comment Status A P_next starts with "THP is a v IP_next". Additionally, the sau IP_tx" there too. Response Status C .1 P 168 Comment Status A I3-38 is "Transmitter test fixtun assuming "(need to update) he figure title. to update)". And additionally u Response Status C ment i-91 after comment resolution wass ment i-91 was:	denoted IF. While there is nothing wrong with the "InfoField" is twice in the following sentence. Is the "The InfoField is also denoted IF." and in the 'to "InfoField" and "InfoFields" respectively. Response Status C .1 P 155 L 19 Comment Status A P_next starts with "THP is a variable that contain HP_next". Additionally, the same issue occurs in HP_tx" there too. Response Status C .1 P 168 L 21 Comment Status A 13-38 is "Transmitter test fixture 3 for transmitten assuming "(need to update)" was some kind of the figure title. to update)". And additionally update the figure an Response Status C ment i-91 after comment resolution was complete: ment i-91 was:	denoted IF. While there is nothing wrong with this statement, the only "InfoField" is twice in the following sentence. Is it necessary? a "The InfoField is also denoted IF." and in the following sentence ' to "InfoField" and "InfoFields" respectively. <i>Response Status</i> C 1 P155 L19 # <u>1-116</u> <i>Comment Status</i> A EZ P_next starts with "THP is a variable that contains". Should it be HP_next". Additionally, the same issue occurs in the THP_tx definition. HP_tx" there too. <i>Response Status</i> C 1 P168 L21 # <u>1-117</u> <i>Comment Status</i> A EZ 13-38 is "Transmitter test fixture 3 for transmitter jitter measurement is a summing "(need to update)" was some kind of note for the editor the figure title. to update)". And additionally update the figure appropriately if <i>Response Status</i> C ment i-91 after comment resolution was complete: ment i-91 was:	denoted IF. While there is nothing wrong with this statement, the only Change "InfoField" is twice in the following sentence. Is it necessary? SuggestedR a "The InfoField" and "InfoFields" respectively. Response Status C ACCEP C/ 113 Donahue, CI Comment Status A EZ Comment Status P_next". Additionally, the same issue occurs in the THP_tx definition. EZ Make th IP_next". Additionally, the same issue occurs in the THP_tx definition. Make th the defin IP_next There too. Response Status C C II P 168 L 21 # i-117 Comment Tistatus C IS-38 is "Transmitter test fixture 3 for transmitter jitter measurement ne figure title. SuggestedR See con IS-38 is "Transmitter test fixture 3 for transmitter jitter measurement ne figure title. See con Comment Tistatus IS-38 is "Transmitter test fixture 3 for transmitter jitter measurement ne solution ally update the figure appropriately if See con Comment Tistatus IS-38 is "Transmitter test fixture 3 for transmitter jitter measurement ne solution ally update the figure appropriately if See con Response Response Status C C Comment Tistatus	denoted IF. While there is nothing wrong with this statement, the only Change "6dBm" to "6 d "InfoField" is twice in the following sentence. Is it necessary? Change "6dBm" to "6 d "InfoField" and "InfoFields" respectively. Response Response Status C .1 P 155 L 19 # i-116 Comment Status A EZ Comment Status A EZ P_next starts with "THP is a variable that contains". Should it be In this paragraph, and i acronym of ACRF as ": defined as "attenuation. IP_next". Additionally, the same issue occurs in the THP_tx definition. If is transmitter test fixture 3 for transmitter jitter measurement a assuming "(need to update)" was some kind of note for the editor be figure title. Change Test- Mode 5' mode" throughout the condition in Cl 113 SC and additionally update the figure appropriately if Response SuggestedRemedy Response Status C Change Test- Mode 5' mode" throughout the condition in the comment. Response Status C Comment 1-91 after comment resolution was complete: ment 1-91 after comment resolution was complete: ment 1-91 Comment 1-91	denoted IF. While there is nothing wrong with this statement, the only "IndeField" is twice in the following sentence. Is it necessary? "The InfoField is also denoted IF." and in the following sentence to "InfoField" and "InfoFields" respectively. Response Status C .1 P155 L19 # [_116] Comment Status A CZE .1 P155 L19 # [_116] Comment Status A CZ .1 P155 L19 # [_116] Comment Status A EZ P_next*. Additionally, the same issue occurs in the THP_tx definition. Response Status C .1 P168 L21 # [_117] Comment Status A EZ .1 P168 L21 # [_117] Comment Status A Camment Status C .1 P168 L21 # [_117] Change the definition in 1.5 to "attenuation to crosstalk ratio - tare nod." .13-38 is "Transmitter test fixture 3 for transmitter jitter measurement a assuming" (need to update)" was some kind of note for the editor the editor en figure appropriately if Response Status C Response	denoted IF. While there is nothing wrong with this statement, the only "InfoField" is twice in the following sentence. Is it necessary? Change "6dBm" to "6 dBm". a Change "100 Field" is also denoted IF." and in the following sentence to "InfoField" and "InfoField" respectively. SuggestedRemedy a Change "100 Field" is also denoted IF." and in the following sentence to "InfoField" and "InfoField" respectively. Response Status C a P155 L 19 # [116 Comment Status A EZ Comment Status A EZ a-p-next starts with "THP is a variable that contains". Should it be Comment Type E Comment Status A Parext". Additionally, the same issue occurs in the THP_tx definition. P_tx" there too. Response Status C Cl 113 SC 113.8.2.2 P 194 L Comment Status A EZ Change "teoptic the editor is figure 3 for transmitter jitter measurement assuming "(need to update)" was some kind of note for the editor is figure appropriately if Sc 113.8.2.2 P 194 L Comment Status C Change "teoptic the contis is the figure appropriately if SuggestedRemedy See comment. 3.33 is "Transmitter test figure 3 for transmitter jitter measurement is assuming "(need to update)" was some kind of note for the editor is figure 3 for transmitter jitter measurement is assuming "(need to update)" was some kind of note for the editor is figure 3 for transmitter is

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: Comment ID

Comment ID i-120

ΕZ

Cabling

ΕZ

Donahue, Curtis	P 24	L 25	# i-121	<i>Cl</i> 113 <i>SC</i> 113.1.1 Donahue, Curtis	P 79	L 48	# i-124
Comment Type E Change "25Gb/s" to "25	Comment Status A Gb/s".		EZ	Comment Type E Change "diffferent" to "di	Comment Status A		EZ
SuggestedRemedy				SuggestedRemedy			
See comment.				See comment (remove the	nird "f").		
Response ACCEPT. Implemented by i-16	Response Status C			Response ACCEPT. Implemented	Response Status C by comment i-130		
		complete:		[Editor's note added afte the resolution to commen Change "diffference" to "]		complete:	
	0.55		"	C/ 113 SC 113.3.2.2	P 98	L 21	# i-125
Cl 45 SC 45.2.7.14a Donahue, Curtis	P 55	L 47	# i-122	Donahue, Curtis			-
Comment Type E	Comment Status A		EZ	Comment Type E Change " 40GBASE_T"	Comment Status A to " 40GBASE-T".		EZ
"RW" is used in Table 4	o-211a.			SuggestedRemedy			
SuggestedRemedy		/" to "D/\//" and	abanga tha factuata at	See comment.			
00 ,	out of the table change "D\A		change the loothole at	Response	Deenenaa Statua		
In the second and third r	row of the table change "RW o "R/W = Read/Write, RO =		3	Response	Response Status C		
In the second and third r the bottom of the table to				ACCEPT.	Response Status C		
In the second and third r the bottom of the table to <i>Response</i> ACCEPT.	o "R/W = Read/Write, RO = Response Status C	Read only"		ACCEPT.	P 123	L 44	# <u>i</u> -126
In the second and third r the bottom of the table to Response ACCEPT. Cl 80 SC 80.1.4	o "R/W = Read/Write, RO =		# [i-123	ACCEPT. C/ 113 SC 113.3.5.2 Donahue, Curtis	P 123	L 44	-
In the second and third r the bottom of the table to <i>Response</i> ACCEPT. C/ 80 SC 80.1.4 Donahue, Curtis	o "R/W = Read/Write, RO = Response Status C P 70	Read only"	# [i-123	ACCEPT.	P 123 Comment Status A	L 44	- -
In the second and third r the bottom of the table to Response ACCEPT. C/ 80 SC 80.1.4 Donahue, Curtis Comment Type E	p "R/W = Read/Write, RO = Response Status C P 70 Comment Status A	Read only"	# [i-123 EZ	ACCEPT. C/ 113 SC 113.3.5.2 Donahue, Curtis Comment Type E	P 123 Comment Status A	L 44	.
In the second and third r the bottom of the table to Response ACCEPT. C/ 80 SC 80.1.4 Donahue, Curtis Comment Type E Change "40Gb/s and 10	o "R/W = Read/Write, RO = Response Status C P 70	Read only"	# [i-123 EZ	ACCEPT. <i>Cl</i> 113 SC 113.3.5.2 Donahue, Curtis <i>Comment Type</i> E Change "-41dBm" to "-41	P 123 Comment Status A 1 dBm".	L 44	# [<u>i-126</u> EZ
In the second and third r the bottom of the table to Response ACCEPT. Cl 80 SC 80.1.4 Donahue, Curtis Comment Type E Change "40Gb/s and 10 SuggestedRemedy	o "R/W = Read/Write, RO = <i>Response Status</i> C <i>P</i> 70 <i>Comment Status</i> A 0 Gb/s PHYs" to "40 Gb/s a	Read only"	# [i-123 EZ	ACCEPT. <i>Cl</i> 113 <i>SC</i> 113.3.5.2 Donahue, Curtis <i>Comment Type</i> E Change "-41dBm" to "-47 <i>SuggestedRemedy</i>	P 123 Comment Status A 1 dBm".	L 44	- -
In the second and third r the bottom of the table to Response ACCEPT. C/ 80 SC 80.1.4 Donahue, Curtis Comment Type E	o "R/W = Read/Write, RO = <i>Response Status</i> C <i>P</i> 70 <i>Comment Status</i> A 0 Gb/s PHYs" to "40 Gb/s a	Read only"	# [i-123 EZ	ACCEPT. <i>Cl</i> 113 SC 113.3.5.2 Donahue, Curtis <i>Comment Type</i> E Change "-41dBm" to "-4" <i>SuggestedRemedy</i> See comment (add space	P 123 Comment Status A 1 dBm". e).	L 44	.

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: Comment ID

C/ 28D SC 28D.8 Donahue, Curtis	P 211	L 29	# i-127	C/ 113 SC 113.1.1 Thompson, Geoffrey	P 79 GraCaSI S.A.	L 48	# i-130
Comment Type E Change " 25GBASE_ ⁻	Comment Status A		EZ	Comment Type ER There is a misspelling	Comment Status A		EZ
SuggestedRemedy See comment.				SuggestedRemedy Change "diffference"	to "difference".		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 113A SC 113A.2 Donahue, Curtis	P 213	L 31	# i-128	Cl 113 SC 113.7.1 Thompson, Geoffrey	P 178 GraCaSI S.A.	L 33	# i-131
Comment Type E	Comment Status A		EMI test	Comment Type TR	Comment Status A		Cabling
(rounding issues?). Or	me differences in the describe n pg 213 ln 31 it says " 9.525 r And lastly, figure 113A-2 on pg	nm (0.375 in)", l	out pg 214 ln 3 says	networks using link se	topology" refers to equipment w egments. It would require the in ogy involving purely 802.3 equip	volvement of 8	
SuggestedRemedy				SuggestedRemedy			
0	be consistant, either all should	l be "9.53" or all	should be "9.525".	Remove the phrase "i technically incorrect.	n a star topology" from the sent	ence. It is not	necessary and is
Response ACCEPT IN PRINCIP Change all dimension	Response Status C LE. s to 3 significant figures (chan	ge 9.525 mm rei	ferences to 9.53 mm)	Response ACCEPT.	Response Status C		
C/ 113 SC 113.8	Р	L	# i-129				
Fritsche, Matthias	HARTING Ele	ctronics					
Comment Type T	Comment Status R		Cabling				
Category 7A cable/con (Amendment 1 and 2 are not included	nnectors to ISO/IEC 11801, 2nd Ed.)						
SuggestedRemedy							
Class FA: link/channe using Category 7A cal (Amendment 1 and 2 should be added							
Response	Response Status C						
REJECT. Commenter fails to pre	ovide sufficient information to i	nclude in the dr	aft.				

C/ 113	SC ·	113.8.1		P 192	L 8	# i-13	2	C/ 113	SC	113.1.1		P 81		L 46	# i-133	
Schicketa	nz, Diete	er		Reutlingen U	niversty			Schicketar	nz, Die	ter		Reutlin	igen Un	iversty		
Comment	Туре	TR	Commen	t Status R			Cabling	Comment	Туре	Е	Comm	ent Status	Α			Cablin
passe impler	ed later b mented j	y saing i just old w	t woud not pr ording used.	eclude other op In the Berlin me	tions. This word eeting this was	discussed but it	was	used r	nultiple						ge is defined here ned any more like	but
						g a motion is edi ut the treatment		Suggested	dReme	dy						
Suggested			inge. i perso				in Bernin.	Repea	at in all	formulas	the definiti	ion of S				
00		•	o reflect the	outcome of the	motion that the	one mentioned		Response			Respon	nse Status	С			
conne	ector is n	ot the on	ly one possil	ole.e.g:Start at li	inee 8: One opt	ion is anAfte good wording th		ACCE	PT IN	PRINCIPL	LE.					
satisfy						ggg		Add a	t the er	nd of the f	irst paragra	aph in 113.7	.2			
Response REJE			Response	Status U							ed in 113.7 BASE-T, S		the data	a rate for each	PHY. For 25GBA	SE-T,
		to chang	ge the draft f	or this comment	t.			0 = 0.	020 an			<i>y</i> = 1.				
the im mecha Straw	nproved (anical in poll:	character terface to	ristics and fre the balance	equency extensi	ons specified in	s of IEC 60603- IEC 60603-7-8	1 as the									
Straw I supp Y:12 N: 8 A: 7		cting this	comment:													
				rce meeting, Ot /sep14/unconfir		ada meeting min 3bq_0914.pdf)	nutes									
				ey understood t ey be offered in		the motion not	to									
	nenter cl ative MD		at he is requ	esting that the d	Iraft to be modif	ied to include ar	n									

Suggested/Reinlay Formula 113-13 contains an error To be in line with 802.3bz change 0.625 to 0.5 in the link formulas , it should be sufficient to do it in 113.7.2 once Formula 113-13 contains an error Response Response Status C REJECT. No consensus to change the draft. See comment i-108 Z [Editor's note added after comment resolution was complete: The is not eadded after comment i-108 was: This comment was WITHDRAWN by the commenter. No consensus to change. Straw Poll: I support the commenter's suggested remedy with editorial license: This comment was WITHDRAWN by the commenter. Y: 6 N: 16 C 113-13. C 113-13. Straw Poll: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6: C 113 S C 113.7.4.2 P 186 L 21 # [+136 Straw Poll: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6: C 113 S C 113.7.4.2 P 186 L 21 # [+136 Straw Poll: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6: C 113 S C 113.7.4.2 P 186 L 21 # [+136 Motion #6 Motion #6 Motion #6 C 25% bandwidth above Nyqui	C/ 113 SC 113.7.2 P 178 L 42 # i-134 Schicketanz, Dieter Reutlingen Universty Reutlingen Universty Reutlingen University Reutlingen University	A: 2 MOTION PASSES (Technical >= 75%)]
Suggestationarially To be in line with 802.3bz change 0.625 to 0.5 in the link formulas , it should be sufficient to do ti in 113.7.2 once Response Response Status C RELECT. No consensus to change the draft. See comment i=108 [Editors note added after comment resolution was complete: the resolution to comment i=108 was: No consensus to change. Response Response Response Status Z Straw Poli: I support the commenter's suggested remedy with editorial license: Y: 6 N: 16 Straw Poli: Suggested remedy with editorial license and the scaling factor of support the commenter's suggested remedy with editorial license and the scaling factor of Suggested remedy with editorial license and the scaling factor of Suggested Response Transmitter is no consensus to change the current draft based on this comment 1/10 was: C 1113 SC 113.7.4.2 P 186 L 21 # [-136] Connent Type TR Comment Type TR Comment Status A Cable While the link formulas reference cabling standards were reference measurements and s ups are menifical to compare but but the formulas should look at least similar R form 1000 MHz look afficult to compare but at least match RL from 1600 MHz onwards to the link performance. N: 13 Status C ACCEPT IN PRINCIPLE: Change Equation 113-13 on page 188 line 37 from 8 dB from 1000 MHz to 2000xS MHz 1 align with Equation 113-14 on page 179 lines 35 to 38 (values above 1000 MHz). ACCEPT IN PRINCIPLE: <tr< td=""><td>In 802.3 bz the lower 2.5 G is specified to 100 MHz, 5G to 250 MHz. Scaling this</td><td>F 162 L 6 # [-135</td></tr<>	In 802.3 bz the lower 2.5 G is specified to 100 MHz, 5G to 250 MHz. Scaling this	F 162 L 6 # [-135
REJECT. No consensus to change the draft. See comment i-108 Proposed Response Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Editor's note added after comment resolution was complete: the resolution to comment i-108 was: No consensus to change. This comment was WITHDRAWN by the commenter. Straw Poli: I support the commenter's suggested remedy with editorial license: Y: 6 A: 8 See formula and table results given in diminico_3bq_01_0914.pdf consistent with equation 13:13. Straw Poli: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6. C/ 113 SC 113.7.4.2 P 186 L 21 # [136] Straw Poli: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6. C/ 113 SC 113.7.4.2 P 186 L 21 # [136] Motion #6 Move to reject this comment because 25% bandwidth above Nyquist is required for BASE- T. except 2.5GBASE-T. N: Yais a X: 3 X: 3 X: 3 X: 3 X: 3 X: 3 X: 3 X: 3	To be in line with 802.3bz change 0.625 to 0.5 in the link formulas , it should be sufficient	nt Formula 113-13 contains an error
No consensus to change the draft. See comment i-108 Reports of change the draft. See commenters is upgested remedy with editorial license: Is support the commenter's suggested remedy with editorial license and the scaling factor of lisport the commenter's suggested remedy with editorial license and the scaling factor of lisport the commenter's suggested remedy with editorial license and the scaling factor of lisport the commenter's suggested remedy with editorial license and the scaling factor of lisport the commenter's suggested remedy with editorial license and the scaling factor of V; ? ? See formula and table results given in diminico_3bq_01_0914.pdf consistent with equation 113-13. Cl 113 SC 113.7.4.2 P 186 L 21 # [136] Scheek targe value Comment value Notion 216 Comment Value Comment Value Notion #6 Motion #6 Motion 7: Response Value Comment Value Compare but at least match RL from 1600 MHz orwards to the link performance. Notion 7: Relet the comment as there is no consensus to change the current draft based on this comment. Response Status C ACCEPT IN PRINCIPLE. Change 180 into 37 from 8 dB from 1000 MHz to 2000xS M	Response Response Status C	The last f^2 should multiply only the 7 of 10^-7 not (10^-7)xf^2
the resolution to comment i-108 was: No consensus to change. Straw Poli: I support the commenter's suggested remedy with editorial license: Y: 6 N: 16 A: 8 Straw Poli: 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 Motion #6 Motion #6 Motion #6 Motion #6 S: Martin Resebach Y: 6 S: Martin Resebach Y: 6 Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Pterf Jones Y: 18		
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 and the scaling factor of 0.6: Y: 7 N: 15 A: 6 Motion #6 Motion #6 Motion #6 Motion #6 Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: N: Bis Deter I New Status C Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 18	the resolution to comment i-108 was:	This comment was WITHDRAWN by the commenter.
A: 8 C/ 113 SC 113.7.4.2 P186 L 21 # 1-36 Straw Poll: Is upport the commenter's suggested remedy with editorial license and the scaling factor of 0.6: Schicketanz, Dieter Reutlingen University Y: 7 The Work of Straw Poll: Comment Status A Cable Motion #6 Motion #6 Motion #25508ASE-T. While the link formulas reference cabling standards were reference measurements and sups are mentioned clause 113.7.4 direct attach shows limits witout saying how to measure the scaling the performance. SuggestedRemedy Motion #6 Motion #6 Cable SuggestedRemedy Moter to reject this comment because 25% bandwidth above Nyquist is required for BASE-T. SuggestedRemedy The two sets are difficult to compare but at least match RL from 1600 MHz onwards to the fix performance. Y: 13 A: 8 MOTION FAILS (Technical >= 75%) Response Response Status C Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 18 Y: 18 Y: 18 Y: 18 Set the set of th	I support the commenter's suggested remedy with editorial license: Y: 6	See formula and table results given in diminico_3bq_01_0914.pdf consistent with equation 113-13.
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 Motion #6 S: Martin Rossbach Y: 6 S: Martin Rossbach Y: 6 Notion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 8		
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%) Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Per Jones Y: 18	I support the commenter's suggested remedy with editorial license and the scaling fact 0.6: Y: 7 N: 15	While the link formulas reference cabling standards were reference measurements and set ups are mentioned clause 113.7.4 direct attach shows limits witout saying how to measure them. Therefore it is difficult to compare both but the formulas should look at least similar.
Move to reject this comment because 25% bandwidth above Nyquist is required for BASE-T, except 2.5GBASE-T. The two sets are difficult to compare but at least match RL from 1600 MHz onwards to the link performance. M: Valerie Maguire S. Martin Rossbach Y: 6 Response N: 13 A: 8 A: 8 Change Equation 113-33 on page 186 line 37 from 8 dB from 1000 MHz to 2000xS MHz to align with Equation 113-14 on page 179 lines 35 to 38 (values above 1000 MHz). Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 18 Y: 18		SuggestedRemedy
M: Valerie Maguire Response Status C S: Martin Rossbach A: 8 Y: 6 ACCEPT IN PRINCIPLE. N: 13 Change Equation 113-33 on page 186 line 37 from 8 dB from 1000 MHz to 2000xS MHz to align with Equation 113-14 on page 179 lines 35 to 38 (values above 1000 MHz). MOTION FAILS (Technical >= 75%) Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico M: Chris Diminico S: Peter Jones Y: 18 Y: 18	Move to reject this comment because 25% bandwidth above Nyquist is required for BA	SE- The two sets are difficult to compare but at least match RL from 1600 MHz onwards to the link performance.
Y: 6 N: 13 A: 8 MOTION FAILS (Technical >= 75%) Motion 7: Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 18		Response Response Status C
Reject the comment as there is no consensus to change the current draft based on this comment. M: Chris Diminico S: Peter Jones Y: 18	Y: 6 N: 13 A: 8	Change Equation 113-33 on page 186 line 37 from 8 dB from 1000 MHz to 2000xS MHz to
	Reject the comment as there is no consensus to change the current draft based on thi comment. M: Chris Diminico S: Peter Jones Y: 18	
	N: O	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 113 SC 113.7.2	P 178	L 38	# i-137		C 113.5.4.3		L 22	# i-139
Schicketanz, Dieter	Reutlingen Univ	versty		Moffitt, Bryan		CommScop	e, Inc.	
Comment Type TR	Comment Status D		Cabling	Comment Type	т	Comment Status A		EMI test
	everywere, but the main qualifi add the possibility to match the			true and sh	ould be dele	ponents in the test remain eted or modified to match the		
SuggestedRemedy				SuggestedRem	,			
,	on depending on local envinron	ment after suu	bclause 113.7.3.2.1.			ected, such as: Componen eference plane.	its that are expos	ed to the induced fields
	Atlanta it does not fit here. (fro			Response	J	Response Status C		
Proposed Response	Response Status Z			, ACCEPT IN				
REJECT.				Change to ground refe		ents that are exposed to th e."	e induced fields s	should remain over the
This comment was WI	THDRAWN by the commenter.			C/ 113 S	C 113.5.4.3	P 171	L 25	# i-140
				Moffitt, Bryan		CommScop		" 1140
	specified in the referenced cal ment parameter as not directly			Comment Type 6dBm shou		Comment Status D	noc test data	EMI test
C/0 SC 0	Р	L	# i-138	SuggestedRem	edy			
Schicketanz, Dieter	Reutlingen Univ	versty		review test	results and	change if necessary		
Comment Type GR	Comment Status D		Cabling	Proposed Resp	onse	Response Status Z		
in bz in the alin clause	there is a sentence that the cal	lculation is dor	e up tp 100 and 200	REJECT.				
MHz due to niuse issue	es			This comm	ont was WI	THDRAWN by the commer	ntor	
SuggestedRemedy							nor.	
It is done differently in	bq, for the sake of Multigigabit	both standards	s should be harmonized	Additional t	oot doto will	be reviewed if provided		
Proposed Response	Response Status Z			Additional t		be reviewed if provided.		
REJECT.								
This comment was WI	THDRAWN by the commenter.							
	ot provide enough detail or page							
issues raised nor reco	nmend specific changes to the	draft to impler	nent any changes.					

P 171 L 32 CommScope, Inc.	# <u>i-141</u>	C/ 113 SC 113.7.4.3.1 P 187 L 1 # [i-144 Moffitt, Bryan CommScope, Inc. CommScope, Inc.
x (113A.3) that is not necesarily carried says "impairment as specified". It is clea bod reason to drag the 10% statement in that 10% in any interpretation is a sma	into the actual Annex test arly identified in the annex as nto the main document. Il deviation by conventional	Comment Type E Comment Status D Cable Table format is inconsistent with other specification equations SuggestedRemedy Image: Cable Image: Cable SuggestedRemedy alter to equation format Image: Cable Image: Cable Image: Cable Proposed Response Response Status Z Image: Cable Image: Cable This comment was WITHDRAWN by the commenter. Image: Cable Image: Cable Image: Cable
		Implement suggested remedy if possible. <i>CI</i> 113 SC 113.7.4.3.2 <i>P</i> 187 <i>L</i> 24 # [i-145] Moffitt, Bryan CommScope, Inc.
CommScope, Inc. Comment Status A nated cabling that meets the requirement		Comment Type E Comment Status D Cable Table format is inconsistent with other specification equations SuggestedRemedy alter to equation format Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Implement suggested remedy if possible. Cable
CommScope, Inc.	# [i-143 EMI test	Cl 113 SC 113.7.4.3.4 P 188 L 9 # i-146 Moffitt, Bryan CommScope, Inc. Comment Type E Comment Status A Cable Comment Type E Comment Status A Cable Cable No need to repeat this odd voltage calculation SuggestedRemedy Delete - already overdone at 113.7.2.4.4 Cable
	Comment Status D several ambiguous issues: The 10% refx (113A.3) that is not necesarily carried says "impairment as specified". It is clear (113A.3) that is not necesarily carried says "impairment as specified". It is clear (113A.3) that is not necesarily carried says "impairment as specified". It is clear (113A.3) that is not necesarily carried says "impairment as specified". It is clear (113A.3) that is not necesarily carried ad that 10% in any interpretation is a smatce it was not clearly defined, delete the it (113A.3) THDRAWN by the commenter. (113A.3) ar up a previous ambiguity flagged in commonscope, Inc. (113A.3) CommScope, Inc. (113A.3) Comment Status A nated cabling that meets the requirement (113A.3) r plug-terminated cabling span that meet (113A.3) Response Status C P 171 L 40 CommScope, Inc. (113A.3)	Comment StatusDEMI testseveral ambiguous issues: The 10% refers to a calibration (113A.3) that is not necessarily carried into the actual Annex test says "impairment as specified". It is clearly identified in the annex as ood reason to drag the 10% statement into the main document.d that 10% in any interpretation is a small deviation by conventional ce it was not clearly defined, delete the note.Response StatusZTHDRAWN by the commenter.Thus a previous ambiguity flagged in comments.Image: Comment StatusImage: Comment Statusar up a previous ambiguity flagged in comments.Image: Comment StatusImage: Comment StatusImage: Comment Statusar up a previous ambiguity flagged in comments.Image: Comment StatusImage: Comment StatusImage: Comment Statusar up a previous ambiguity flagged in comments.Image: Comment StatusImage: Comment StatusImage: Comment Statusanated cabling that meets the requirements of 113.7" is off sense.Image: Comment StatusImage: Comment StatusImage: Comment StatusCImage: Comment StatusImage: Comment StatusImage: Comment StatusCImage: Comment StatusImage: Comment StatusImage: Comment StatusAImage: Comment StatusImage: Comment St

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: Comment ID

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2/7/2016 5:07:49 PM

/ 113 SC 113.7.4.3.3 P 187 loffitt, Bryan CommSc	L 45	# i-147	C/ 1 SC 1.2 Rolfe, Benjamin	P 24 Blind Creek As	L 40	#
•	ope, mc.	0.1.1	· · ·		SUCIALE	
comment Type E Comment Status A		Cabling	Comment Type T	Comment Status R		LATE - Definition
identical to Equation 113-21				o the requirements outlined in IS .3, Clause 14, Clause 23, Clause		
uggestedRemedy			Clause 113 specify a	additional requirements for this ca	abling when us	ed with 10BASE-T,
could delete and add reference				SE-T, 25GBASE-T, and 40GBAS		
esponse Response Status C				ative clause. "Each definition sh		
ACCEPT IN PRINCIPLE. P187 L45, delete "as follows" change Equation	(113-34) to Equation	n (113-21)		m in question and shall	nto or olohorot	ive text " (the use of "in
Delete Equation (113–34).	(113-54) to Equation	r (113-21).		r information, such as requireme ements" are clues either this is e		
/ 113 SC 113.7.4.3.5 P 189	L 6	# i-148	SuggestedRemedy			
loffitt, Bryan CommSo	-	" 140	Delete text following	first sentence.		
omment Type E Comment Status A		Cabling	Response	Response Status C		
identical to Equation 113-26		e ann ag	REJECT.			
uggestedRemedy			Text is consistent wi are several.	th other definitions for category of	abling in IEEE	802.3-2016, and there
could delete and add reference						
esponse Response Status C			C/ 113 SC 113	P 79	<i>L</i> 1	#
ACCEPT IN PRINCIPLE.			Rolfe, Benjamin	Blind Creek As	sociate	
P189 L1, delete "as follows" change Equation (Delete Equation (113–38).	113–38) to Equation	(113-26).	Comment Type E (LATE) Missing editi	Comment Status R		LATE - Editoria
/ 113 SC 113.7.4.3.9 P 190	L 8	# i-149	SuggestedRemedy Probably somothing	like "insert the following sub-clau	uso following cl	2000 112" 2
offitt, Bryan CommSo	cope, Inc.			-	ise following ci	
omment Type E Comment Status A		Cabling	Response REJECT.	Response Status C		
identical to Equation 113-27				2) states: "This amendment inclu	ides changes to	D IEEE Std 802.3-2015
uggestedRemedy			and adds Clause 11	and Annex 113A."	0	
could delete and add reference			Amendments adding instructions to add th	entire new clauses do not gene	rally have addit	tional editing
esponse Response Status C						
ACCEPT IN PRINCIPLE. P190 L1, delete "as 1 Equation (113-27).	ollows" change Equa	tion (113–40) to				

Comment ID

C/ 113 SC 113.4.2.5		L 47	#		SC 113.5.3.3	P 169	L 12	#
Rolfe, Benjamin	Blind Creek As	sociate		Rolfe, Benjam	IN	Blind Creek A	ssociate	
Comment Type T	Comment Status A		LATE - PMA	Comment Typ	e E	Comment Status A		LATE - PM
receiver" is imprecise.	Any other value shall not be transformed to the transformed only 1 value only 1 val			shown in l	Figure 113–3'	ode RMS period jitter test sh sounds a lot like a requirem ple is outside the scope of th	ent on a pesron	
SuggestedRemedy				SuggestedRe	medy			
Change "any" to "all"				Change "s	shall be run" t	o "is measured" (consistent v	with elsewhere i	n this standard)
Response	Response Status C			Response		Response Status C		
ACCEPT IN PRINCIPL Change "Any other val read	E. ue shall not be transmitted and	d shall be ignor	ed at the receiver" to	ACCEPT. Comment		ler maintenance on same st	atement in claus	se 55.
	e transmitted, and all other va	lues shall be ig	nored at the receiver."	C/ 113	SC 113.5.4.1	P 171	L 6	#
C/ 113 SC 113.5.2.1	P 168	L 20	#	Rolfe, Benjam	in	Blind Creek A	ssociate	
Rolfe, Benjamin	Blind Creek As		#	Comment Typ	e E	Comment Status A		LATE - PM
Comment Type E (LATE) Figure 113–38	Comment Status A I suspect "(need to update)" is ete and not ready to ballot.		LATE - Editorial erwise this draft would	for "satisfa	action" are giv and here we	e satisfied" is going to be ve en in this standard. I think t mean that the requirement is	he "shall" belong	gs in the previous
SuggestedRemedy				SuggestedRe	medy			
	e)"			Correctly	state the requ	ired performance.		
Delete "(need to updat				Response		Response Status C		
Delete "(need to updat Response	Response Status C			ricoponico				
· · ·	,			ACCEPT	IN PRINCIPL	, E.		
Response ACCEPT. Implemented by comm	nent i-91 ter comment resolution was co	omplete:		ACCEPT Change "a	are received"	,	This specification	on can be verified by"

Comment ID

C/ 113A SC 113A.4	P 219	L1	# i-156		113.7.2	P 178	L 52	# i-157
		, 110.	EMI toot	-	-			Cabling
Aoffitt, Bryan Comment Type T "reduced to the minimu switching to and from ze SuggestedRemedy Change to something lif minimize any disruptive Response ACCEPT IN PRINCIPLI	CommScope, Comment Status A m output level" does not ens ero still can create strong tra ke: The signal generator out frequency switching transie Response Status C E. generator output should be c	, Inc. sure relief from t insients. put transitions s nts.	<i>EMI test</i> transients. Fast should be controlled to	Hess, David Comment Type Recognize Ca defined in 802 supported cal "1.4.124 Cate hardware who components r addition to the Clause 14, Cl requirements SuggestedRement Insert footnot, of column 1, r Place the note "Category 7A cabling, which supports 25G link segment frequency ran Proposed Resport REJECT. This comment PROPOSED Content of su	T (ategory 7A ba 2.3, and as it i bling types. agory 7A balar ose transmiss meet the period e requirement lause 23, Clau for this cablin dy e reference "a row 2, "ISO/IE e below Table balanced cat h is listed in T BASE-T for a characteristic nge of 1 MHz f nse R at was WITHD REJECT ggested reme	CORD DATA Comment Status D lanced cabling capacity to s already used in Class F need cabling: Balanced 10 ion characteristics are spe ormance specified in ISO/ s outlined in ISO/IEC 118 use 25, Clause 40, and Cl. g when used with 10BAS "within Table 113-21- Ca C Class I / Class II" 113-21- Cabling types ar jung, defined in clause 1.4 able 55-17 among the 100 link segment distance of s are verified according to	o support 25GBA A cabling listed 00 U cables and ccified up to 1,00 IEC 11801:2002 01:2002 Amend ause 55 specify E-T 100BASE-T bling types and nd distances: 1.124, which is u GBASE-T suppo 30 m; Category this subclause	Cabling ASE-T, as it is already among 10GBASE-T associated connecting 00 MHz (i.e., cabling 2 Amendment 2). In ment 2, IEEE 802.3 additional 7 and 10GBASE-T " distances, to the end sed in Class FA yrted cabling types, 7A balanced cabling (113.7) over the
				of column 1, r Place the not "Category 7A cabling, and s additional req segment char range of 1 MF Straw Poll:	row 2, "ISO/IE e below Table balanced cab supports 25GI juirements of racteristics and Hz to 1250 MH	" within Table 113-21- Ca C Class I / Class II" 113-21- Cabling types ar bling, defined in clause 1.4 BASE-T for a link segmen ISO/IEC TR11801-9905; (e verified according to this tz "	d distances: 124, which is u t distance of 30 Category 7A bal subclause (113	sed in Class FA m, subject to the anced cabling link

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: Comment ID

2/7/2016 5:07:49 PM

N: 9 A: 8				C/ FM SC	FM	P 11	<i>L</i> 18	# <u>i-160</u>
			<i>u</i> []	Law, David		Hewlett Pack	ard Enter	
CIO SCO	P 0	L 0	# i-158	Comment Type	Е	Comment Status A		E
	Comment Status A I editorial requirements.		EZ	IEEE P802.	3by will b	based on the approval of IEEE e the second amendment and Std 802.3-2015, and the use o	IEEE P802.3bq	will be the third
SuggestedRemedy				SuggestedRem	edy			
				Suggest that	t:			
Response ACCEPT. (Editor's note - add	Response Status C	o change to the c	Iraft required)	[1] The follo 201x':	wing text	should be inserted prior to the	existing text 'IE	EE Std 802.3bq(TM)-
C/FM SC FM	P1	<i>L</i> 1	# i-159	IEEE Std 80	2.3bw-20)15		
Law, David	Hewlett Pack	ard Enter		Amendmen	1This	amendment includes changes	to IEEE Std 802	2-2015 and adds
Comment Type E	Comment Status A 302.3by entering sponsor ballot in	November 2014	EZ	Clause 96.	This ame	ndment adds 100 Mb/s Physic eters for operation on a single	al Layer (PHY) s	specifications and
IEEE P802.3bp en P802.3bq showing	tering sponsor ballot in Decemb approval in June 2016, and the	er 2015, the publ published timelin	ished timeline for IEEE e for IEEE P802.3bp	IEEE Std 80	2.3by-20	1x		
second amendment	n August 2016, it seems likely th nt and IEEE P802.3bq will be the td 802.3bw(TM)-2015 and IEEE	third amendmer	nt to IEEE Std 802.3-	Clause 105	through (amendment includes changes Clause 112, Annex 109A, Anne nendment adds MAC paramete	ex 109B, Annex	110A, Annex 110B, and
SuggestedRemedy						ansfer of IEEE 802.3 format fra		
	mendment of IEEE Std 802.3(TM 5 as amended by IEEE Std 802			[2] The text 201x'.	IEEE Sto	d 802.3bq(TM)-201x' should be	e changed to rea	d 'IEEE Std 802.3bq-
Response ACCEPT.	Response Status C			113' be c	nanged to	endment includes changes to l o read 'Amendment 3This an o Clause 113'.		
				Response ACCEPT.		Response Status C		

Comment ID i-160

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C/ 1	SC 1.4	P 24	L 21	# i-161	C/ 1	SC 1.4	P 25	L1	# i-163
Law, David		Hewlett Pack	aro Enter		Law, David			Packard Enter	
Comment		Comment Status A		EZ	Comment Ty		Comment Status A		EZ
therefo		eing added by IEEE P802.3by nat IEEE P802.3by will be app e 1.4.64h.			addition	should be u	ly that IEEE P802.3bq will pdated.	be approved before	IEEE P802.3bh this
Suggested					SuggestedR	-			
Sugge [1] The	st that:	e list after 1.4.64i 25GBASE-R			802.3bn [2] The t	-201x) as' ext ' 1.4.277	1.4.277 mixing segment (a ' be changed to read ' aft 'b MultiGBASE-T:' be ch and text on line 8 be deleted	er 1.4.277 mixing se anged to read ' 1.4.2	egment as'.
into the	e list after 1.4.6	4g 25GBASE-SR as inserted	' assuming IEE	E P802.3by comment	Response		Response Status C		
<http: <="" td=""><td></td><td>by/public/comments/8023by_l or ' into the list after 1.4.64g</td><td></td><td></td><td>ACCEP</td><td>Т.</td><td></td><td></td><td></td></http:>		by/public/comments/8023by_l or ' into the list after 1.4.64g			ACCEP	Т.			
		GBASE-T:' be changed to			C/ 1	SC 1.4	P 25	L 4	# i-164
Response		Response Status C			Law, David		Hewlett F	Packard Enter	
ACCE	PT.				Comment Ty	/pe T	Comment Status A		EZ
C/ 1	SC 1.4	Dat	1.04	# [: 400	Isn't a 'E	BASE-T Ethe	ernet PCS/PMA' just a 'BAS	SE-T PHY'?	
Law, David		P 24 Hewlett Pack	L 21	# i-162	SuggestedR	emedy			
							pecific BASE-T Ethernet P	CS/PMAs at' be c	hanged to read ' of
Comment	51	Comment Status A	and the state of t	EZ	specific	BASE-T PH	Ys at'.		
		erence to something having b ly end the editing instructions			Response		Response Status C		
Suggested		,			ACCEP	Т.			
	-	s inserted by IEEE Std 802.3b	v-201X' be chan	ged to read ' (as	C/ 30	SC 30.3.2.	1.2 P 29	L 41	# i-165
		802.3by-201X) as follows:'.	,	.	Law, David		-	Packard Enter	
Response		Response Status C			Comment Ty	/pe E	Comment Status A		EZ
ACCE	PT.				Text nee	eds updated	based on the approval of I P802.3bq will be the third a		st year and the
					SuggestedR	emedy			
					Suggest	-			
					[1] The t ' be ch 201X)	ext ' (as m anged to rea .'.	nodified by IEEE Std 802.3I ad ' (as modified by IEEE in the box on line 47 be de	Std 802.3bw-201X	
					[_]			icicu.	
					Response		Response Status C		

C/ 30 SC 30.3.2.1.	3 P 30	L 3	# i-166		C/ 30 S	C 30.5.1.1.4	P 30	L	# i-168
aw, David	Hewlett Pac	kard Enter			Law, David		Hewlett Packar	d Enter	
comment Type E	Comment Status A			ΕZ	Comment Type	TR	Comment Status A		BY alignment
likelihood that IEEE P	ased on the approval of IEE 302.3bq will be the third am				<http: td="" www<=""><td>ieee802.or</td><td>7 on draft D2.0 of IEEE P802 g/3/by/public/comments/8023b peing accepted, the IEEE P803</td><td>by_D20_comr</td><td></td></http:>	ieee802.or	7 on draft D2.0 of IEEE P802 g/3/by/public/comments/8023b peing accepted, the IEEE P803	by_D20_comr	
SuggestedRemedy Suggest that:					10Gb/s text paragraph (in paragrap 6. The text ir	h 8 rather than modifying the this draft has however not be	40Gb/s and 1 een modified t	00Gb/s text in o reflect this.
' be changed to read 201X)'.	dified by IEEE Std 802.3bw ' (as modified by IEEE St the box on line 7 be deleted	td 802.3bw-201X			P802.3bq w subclause 3 including 25 aMediaAva	vill be Ameno 30.5.1.1.4 al 5GBASE-T. 1able behav	umption that IEEE P802.3by w dment 3, the text modification MediaAvailable behaviour will And further, the existing IEEE iour already supporting all 40	provided in IE provide suppo Std 802.3-20 Gb/s PHYs. B	EE P802.3by to the ort for all 25 Gb/s PHYs 15 subclause 30.5.1.1.4 ased on this no further
Response ACCEPT.	Response Status C					02.3bq and I	clause 30.5.1.1.4 aMediaAvaila hence this subclause should b		
C/ 30 SC 30.5.1.1	2 P 30	L 22	# i <u>-167</u>		SuggestedRem	edy			
.aw, David	Hewlett Pac	kard Enter				at the subcla clause 30 ch	ause 30.5.1.1.4 aMediaAvailab anges.	ble should be o	deleted from the IEEE
Comment Type E	Comment Status A			ΕZ	Response		Response Status C		
	ased on the approval of IEE 302.3bq will be the third am				ACCEPT IN	I PRINCIPL	•		
SuggestedRemedy			010 002.0 2010.		Implemente	,	2.3by, see comments i-20 and	i 74 incorting	a Link Interruption and
Suggest that:							2.3by draft by also changing p		
' be changed to read	dified by IEEE Std 802.3bw- ' (as modified by IEEE Si				the resolution	on to comme	er comment resolution was co ent i-20 was: 9 to match IEEE Std 802.3-20 [.]		40Gb/s)
201X)'. [2] The Editors note in	the box on line 28 be delete	ed.			Change pa	90 00 into 40			4000/07
Response	Response Status C				Move editor	's note after	the sixth paragraph, and befo	ore the eight.	
ACCEPT.							to (also) change eighth paragr uption, as described in comme		ed by IEEE Std 802.3by-
					Insert chan	ge to eighth onsistent wit	ient i-74 was: paragraph in proposed respor h IEEE Std 802.3-2015 (applie		
							the sixth paragraph, and befo	ore the eight.	

C/ 30 SC 30.5.1.1.19 aw, David	P 31 Hewlett Packar	L 11 d Enter	# i-169	C/ 30 SC 30 Law, David	5.1.1.25	P 32 Hewlett Pacl	L 35 kard Enter	# i-170
Comment Type T Com Suggest for clarity it should be input for MultiGBASE-T PMAs SuggestedRemedy Suggest that the text ' for the <s>10GBASE-T <u>Mult subclause 30.5.1.1.20 'aSNRC 'aSNROpMarginChnIC' (line 4'</u></s>	nment Status A e stated that SNR opera s. e <s>10GBASE-T tiGBASE-T PMA.' DpMarginChnIB' (line 26</s>	ting margin is r PMA.' be chan should be char δ), in subclause	ged to read ' for the nged here and in 9 30.5.1.1.21	Comment Type There is no 'PH' diagram variable be to fr_tx_coun subclause 113.4 In addition, while Std 802.3-2015	Yevent counter s' or subclause er defined in IE .5.4 'Counters'. the size of the subclause 55.4	ment Status A defined in IEEE S 113.4.5.4 'Counte EEE Std 802.3-2019 counter isn't explic .5.4 or subclause 1	td 802.3-2015 sul rs'. Instead I think 5 subclause 55.4. citly stated in the i 13.4.5.4, in both	<i>Training</i> oclause 55.4.5.1 'State the reference should 5.4 'Counters' and ts definition in IEEE cases it is stated that it ich implies it is a five
ACCEPT.				increment rate of bits to allow a re- information. Based on this al fr_tx_counter, of directly.	f 1000 counts p asonable pollin DFastRetrainC from the LD fa	g speed through a	ave to be conside management prot d by the local ma ister, but can't be	rable bigger than five tocol without loss of nagement agent from
				SuggestedRemedy Suggest that:				
				 [1] In subclause counter (see 55. fr_tx_counter (se) [2] In subclause register (see 45. the LD fast retra [3] In subclause counter (see 55. fr_rx_counter (se) [4] In subclause register (see 45. fr_ex_counter (se) 	4.5.1 and 113.4 to 55.4.5.4 and 30.5.1.1.24 the 2.1.79.2).;' be of n count registe 30.5.1.1.25 the 4.5.1 and 113.4 to 55.4.5.4 and 30.5.1.1.25 the 2.1.79.1).;' be of	4.5.4)' be changed to 113.4.5.4).'. text ' then this at changed to read ' r (see 45.2.1.79.2). text 'The indication 4.5.4)' be changed to 113.4.5.4).'.	to read 'This cour ttribute maps to th then this attribute ;'. n reflects the state to read 'This cour ttribute maps to th then this attribute	e of the PHY event ater can be derived from the LD fast retrain count e can be derived from the of the PHY event ater can be derived from the LP fast retrain count e can be derived from
					0	· /	,	

C/ 30 SC 30.6.1.	I.5 P 33	L 9	# <u>i-171</u>	C/ 105 SC 105.1.3	B P76	L 8	# <u>i-174</u>
Law, David	Hewlett Pack	kard Enter		Law, David	Hewlett Pac	kard Enter	
Comment Type E	Comment Status A		E	Z Comment Type E	Comment Status A		BY alignment
	pased on the approval of IEEE 2802.3bq will be the third ame			25GBASE-R and be in IEEE P802.3by dr defined for operation	ons read 'Insert the following p fore Table 105-1' however the aft D3.0 that reads 'Physical L at 25 Gb/s.'.	re is already a pa	aragraph at the location
				SuggestedRemedy			
	odified by IEEE Std 802.3bw-2 d ' (as modified by IEEE Sto			66 6	nstructions should read 'Inser	t the following ne	ew third paragraph:'.
201X)'.		1002.00W 201X		Response	Response Status C		
[2] The Editors note	n the box on line 13 be delete	d.		ACCEPT.			
Response ACCEPT.	Response Status C			C/ 105 SC 105.2 Law, David	Р 77 Hewlett Pac	L 3 kard Enter	# i-175
C/ 45 SC 45.2.1. Law, David	79.1 P 42 Hewlett Pack	L 20 kard Enter	# [<u>i-172</u>	Comment Type E Typo, 40GBASE-T s	Comment Status A hould read 25GBASE-T.		EZ
Comment Type E	Comment Status A		E	Z SuggestedRemedy			
The fr_rx_counter is	defined in subclause 55.4.5.4	'Counters' of IEE	EE Std 802.3-2015.		row for 40GBASE-T after 25G		ould be changed to read
SuggestedRemedy					ASE-T after 25GBASE-SR'.		
	' fr_rx_counter as defined in _rx_counter as defined in 55.4			Response ACCEPT.	Response Status C		
Response	Response Status C			C/ 105 SC 105.2	P 77	L 8	# i-176
ACCEPT.				Law, David	Hewlett Pac	+	# [-176
C/ 45 SC 45.2.1.		L 29	# i-173	Comment Type T	Comment Status A		BY alignmen
Law, David	Hewlett Pack	kard Enter		PHY	table 105-2 also be changed s	SINCE 25GBASE-	T ISN'T & 25GBASE-R
Comment Type E	Comment Status A		Maintenand	e SuggestedRemedy			
The fr_tx_counter is	defined in subclause 55.4.5.4	'Counters' of IEE	E Std 802.3-2015.	,	se correlation, 25GBASE-R' b	e changed to rea	ad ' clause correlation
SuggestedRemedy					<u> 25 Gb/s Ethernet Pl</u>		
	fr_tx_counter as defined in			Response	Response Status C		
changed to read ' f	_ix_counter as defined in 55.4			ACCEDT			
changed to read ' f Response	Response Status C	4.0.4 101 10 0 D/K		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: Comment ID

	105.3	P 77	L 32	# i-177	C/ 105	SC	105.5		P 78	L 12	# i-179
aw, David		Hewlett Packa	rd Enter		Law, David				Hewlett Pack	ard Enter	
comment Type	т	Comment Status A		BY alignment	Comment	Туре	т	Comment S	Status A		PMA/PML
Media Indepe optional inter specification 107).'. With t limited to just	face, it is u and provic he additior t the 25GB		2.3by reads 'W ard as a basis ce for the 25Gk .3bq the 25GM	hile the 25GMII is an for functional BASE-R PCS (Clause /II will no longer be	T PMA Suggested	(see F <i>Remec</i> st that	Figure 113 dy	-1).	hanged to rea	ly a 25GBASE-T nd '25GBASE-T F	PCS and a 25GBASE- PHY'.
		on of the 25GMII found in sub 2.3by draft D3.0 that includes			CI 78	SC	78.1.3.3.1		P 65	L 41	# i-180
designed to a	connect a	25 Gb/s capable MAC to a 25	Gb/s PHY' su	ggest that following	Law, David		70.1.5.5.1		Hewlett Pack		# <u>1-100</u>
change to the	e third para	agraph of subclause 105.3.1	be included in t	the IEEE P802.3bq draft:	Comment	Tvne	Е	Comment S	Status A		BY alignmer
105.3.1 Reco	onciliation	Sublayer (RS) and 25 Gigabit	Media Indepe	ndent Interface (25GMII)	Text ne	eds u	pdated bas	sed on the like	lihood that IE	EE P802.3by wil	l be the second
Change the t	hird parag	raph of subclause 105.3.1 as	follows:		amend Suggested			d 802.3-2015	and that IEEE	P802.3bq will be	e the third.
		ion and provides a common s > a 25 Gb/s PHY. <i>Response Status</i> C	service interrac	e for<5> the 25GBASE-	modifie [3] Bas greater [4] Bas	ed IEEI sed on r' be sed on	E Std 802. IEEE P802 changed t IEEE P802	3by-201X) as 2.3by draft D3 to read ' an 2.3by draft D3	follows:'. 5.0 the text ' operating spe 5.0 the text '	an operating spe ed of 25 Gb/s or with an operating	a clause 78.1.3.3.1 (as eed of 40 Gb/s or greater' on line 12. g speed less than 40
.aw, David	105.3	P 77 Hewlett Packa	L 30 Ird Enter	# [<u>i-178</u>	[5] Bas	ed on r' be	IEEE P802 changed t	2.3by draft D3	0.0 the text '	with an operating	below on line 15. g speed of 40 Gb/s or /s or greater' on line
Comment Type Typo.	Е	Comment Status A		EZ	Response			Response S	Status C		
SuggestedReme	du				ACCEI	PT.					
00	,	clause 105.3.6' be change	d to read ' of	subclause 105.3.6'.							
Response		Response Status C									
				. of 105.3.6' (deleting							

CI 78	SC 78.1.4	P 65	L 24	# i-181
Law, David		Hewlett Pac	kard Enter	
Comment T	Гуре Е	Comment Status A		BY alignment
they m	ention that this t	g instruction be placed after able has been modified by antry with the 40GBASE-T	EEE P802.3by,	and places 25GBASE-T
Suggested	Remedy			
types o Table 7	optionally suppor 78-1 (as modified	g instruction be placed on li rting EEE' and be changed t d by IEEE Std 802.3by-2013 the entry "40GBASE-ER4" f	to read 'Insert th X) after the entry	e following new rows into [,] "25GBASE-SR" for
Response		Response Status C		
instruc	s note added af	ter comment resolution: del 'as follows:' to be consistent		ments and style.]
CI 78	SC 78.2	P 65	L	# i-182
Law, David		Hewlett Pac	kard Enter	
Comment T	Туре Е	Comment Status A		BY alignment
		ed updated based on the like IEEE Std 802.3-2015 and t		
Suggested	Remedy			
	et that the edition	g instruction be changed to		
Table 7	78-2 (as modifie	d by IEEE Std 802.3by-2012 the entry "40GBASE-CR4" t		
Table 7	78-2 (as modifie			

[Editor's note added after comment resolution: deleted 'the following' and changed editing instruction to end with 'as follows:' to be consistent with other comments and style.]