CI 00 SC 0	P	L	# 1		CI 00	SC	0	P 00	L 0	# 95
Anslow, Pete	Ciena				Thompsor	, Geoff		GraCaSI S.A.		
Comment Type E	Comment Status D			ΕZ	Comment	Туре	TR	Comment Status D		Editoria
	evision has been approved by t anged from 201x to 2015	he IEEE SASB,	the "base_year" var	riable	for bo point t	th physic o one pa	cal signal air when ເ	term "channel" means througho ing paths and "virtual" paths. Fu used as a physical term or as a conform to the definitions for cha	urther, it is not collective term	clear whether it intends to for the 4 pairs. In any
	ar" variable in all files from 201x I 802.3-201x" to "IEEE Std 802		hould change all		to be	sufficien	tly precis			nor are the uses mouned
Proposed Response	Response Status W				Suggestee		,			
PROPOSED ACCEPT	,	L 0	# 04		augmouse th	entation e term "	of the cl. link segm	for the use of the term "channel" 1.4 definition being made by oth hent" (your draft is already pretty	ner drafts in bal	lot. When appropriate is). Align usage to cl. 1.4
C/ 00 SC 0 Thompson, Geoff	P 00 GraCaSI S.A.	LU	# 91					ining modifiers to make each us	se of the term e	explicitly specific.
Comment Type E	Comment Status D			ΕZ	Proposed	'		Response Status W		
SuggestedRemedy No change required.	aft for correct usage of the term to be correct.	Is Midi and Mi	Di connector . All u	sage	review Comn (speci	draft to nenter to	check al note that lauses 48	ft and replace 'channel' with 'link ignment with proposed definitior t usage of channel is largely as i 5 & 55), which any new propose	n of ['] channel' in in existing text	802.3by. in 802.3-2015
Proposed Response	Response Status W				C/ 00	SC	0	P 31	L 5	# 63
PROPOSED ACCEPT	г.				ZImmerma	an, Geor	ge	CME Consultin	g, Inc.	
No change required.					Comment	Туре	Е	Comment Status D		BZ Ordei
								.3bq will precede 802.3bz to spo editor's notes removed.	onsor ballot. Re	eferences to bz and may
					Suggested	Remed	ly			
								s notes referring to 802.3bz dup these changes forward.	lication of text	and instructing which
					Proposed	Respon	ise	Response Status W		
					-		ACCEPT discuss	IN PRINCIPLE.		

CI 00 SC 0

C/ 00 SC 0 P All L All # 148 Law, David Hewlett Packard Enterp	C/ 1 SC 1.3 P 24 L 9 # 33 Maguire, Valerie Siemon
Comment Type E Comment Status D General Please note that I am willing to re-submit any, or all, of my comments on the initial sponsor ballot of IEEE P802.3bq if the IEEE P802.3bq Task Force would prefer. General	Comment Type E Comment Status D EZ Follow 802.3-2012 style for ordering of punctuation and footnotes. SuggestedRemedy EZ
SuggestedRemedy See comment.	Move the superscript 1 after the "." in the first reference.
Proposed Response Response Status W PROPOSED ACCEPT. No change required to draft - Editor's recommendation is to make changes now that we can.	(i.e. replace "Cabling{^}1." with "Cabling.{^}1") Proposed Response Response Status W PROPOSED ACCEPT.
C/ 1 SC 1.3 P 24 L 12 # 34 Maguire, Valerie Siemon	C/ 1 SC 1.4 P 24 L 22 # 58 ZImmerman, George CME Consulting, Inc.
Comment Type TR Comment Status D Cabling Insert a reference to the ISO/IEC Technical Report under development to address installed cabling support of 25GBASE-T. SuggestedRemedy Add to Normative references: ISO/IEC TR 11801-9905 (draft), Guidelines for the use of installed cabling to support 25GBASE-T.	Comment Type E Comment Status D EZ Editing instruction should be 'as inserted by IEEE P802.3by' SuggestedRemedy SuggestedRemedy See comment See comment Proposed Response Response Status W PROPOSED ACCEPT. V
Add ISO/IEC TR 11801-9905 to the Editor's Note on line 14 as follows:	Cl 1 SC 1.4 P 24 L 23 # 38 Maguire, Valerie Siemon
References to published versions of ANSI/TIA-568-C.2-1-201x, ISO/IEC 11801-1, and ISO/IEC TR 11801-9905 will be substituted when available. Proposed Response Response Status W PROPOSED REJECT. Task group needs to review ISO/IEC TR 11801-9905 (draft), "Guidelines for the use of installed cabling to support 25GBASE-T" to ensure specifications meet the 802.3bq link segment specifications.	Comment Type TR Comment Status D Cabling Recognize that up to 30m, 2-connector category 7A channels, to be described in ISO/IEC TR 11801-9905, will support 25GBASE-T. (May wish to discuss Maguire-4 and Maguire-5 first.) This aligns with Clause 1.4 of 802.3-2015, which calls out Class E for support of 10GBASE-T. SuggestedRemedy Replace, "1.4.64j 25GBASE-T: IEEE 802.3 Physical Layer specification for a 25Gb/s LAN using four pairs of ANSI/TIA Category 8, ISO/IEC Class I, or ISO/IEC Class II balanced copper cabling. (See IEEE Std 802.3, Clause 113.)"
	 with, "1.4.64j 25GBASE-T: IEEE 802.3 Physical Layer specification for a 25Gb/s LAN using four pairs of ANSI/TIA Category 8, ISO/IEC Category 7A, ISO/IEC Class I, or ISO/IEC Class II balanced copper cabling. (See IEEE Std 802.3, Clause 113.) Proposed Response Response Status W PROPOSED REJECT. See resolution to comment#34. Resolve with comments#36,37
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Response Status: D/open W/wr	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 1.4 11/4/2015 4:15:30 PM SORT ORDER: Clause, Subclause, page, line

C/ 1 SC 1.4.131a Anslow, Pete	P 24 Ciena	L 37	# <u>3</u>	C/ 1 SC 1.4.278a Law, David	a P 25 Hewlett Packard Er	L 3 # <u>98</u>
Comment Type E A comma is not used in 80 be separated into groups of groups should be separated the number is less than or	Comment Status D 02.3 as a thousands separate of three, counting from the de ed by a space, and not a com he, the decimal point should b ot necessary, unless four-digi- nore."	cimal point tow ma, period, or o pe preceded by	ard the left and right. The lash. If the magnitude of a zero. In numbers of	Comment Type E Shouldn't the entry for segment' and '1.4.278 is adding the entry '1.4 SuggestedRemedy Change the text '1.4.2' designation may need definitive	Comment Status D 'MultiGBASE-T' be placed between t multiport device'. If this is correct, it s .277a modulation error ratio (MER)'. 78a MultiGBASE-T' to read '1.4.277b swapped with IEEE P802.3bn once t	the entry for '1.4.277 mixing should be noted that IEEE P802.3b o MultiGBASE-T'. Note that this
Change "2,000" to "2000" Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEP Cl 1 SC 1.5		L11 # 4
Cl 1 SC 1.4.131a ZImmerman, George Comment Type E 2,000 should be 2000 per SuggestedRemedy See comment	P 24 CME Consultir <i>Comment Status</i> D style guide	<i>L</i> 38 ig, Inc.	# [<u>59</u> E	noun. SuggestedRemedy	Ciena Comment Status D eviations in 802.3 does not use initial o Crosstalk Ratio - Far End" to "atten Response Status W	
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEP		L1 # [44
SuggestedRemedy	P 24 Bright House N Comment Status D 10GBASE-T, 25GBASE-T a	nd 40GBASE-T	# <u>19</u> 	ZImmerman, George Comment Type E Hanging "bq 25G/40G SuggestedRemedy Delete	CME Consulting, In Comment Status D BASE-T"	nc.
Change "10GBASE-T, 25 The same change on page Proposed Response PROPOSED ACCEPT.	GBASE-T>>,<< and 40GBA e 25, line 4 <i>Response Status</i> W	SE-T."		Proposed Response PROPOSED ACCEP	Response Status W T.	

Cl **105** SC

C/ 105 SC 105.2 Lo, William	P 79 Marvell Semico	L 23 onductor	# 39	Cl 113 SC 113.1.1 ZImmerman, George	P 81 CME Consultir	L 49 ng, Inc.	# 46	
<i>Comment Type</i> T Clause 107, 109, 109A,	Comment Status D 109B does not apply to 25GB	ASE-T	Architecture	Comment Type E Clause 1.4 is an unusef	Comment Status D ul reference, be more precise			EZ
SuggestedRemedy Delete the O from the 4	clauses above.			SuggestedRemedy Change "Clause 1.4" cro	oss ref to "1.4.278a"			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W			
Cl 105 SC 105.2 ZImmerman, George	P 79 CME Consultir	L 23 ng, Inc.	# 70	C/ 113 SC 113.1.1 Hajduczenia, Marek	P 81 Bright House N	L 49 Network	# 25	
Comment Type T Table 105-2 needs to be PCSs, and AUIs -	Comment Status D e consistent with changes to 40	GBASE-T stacl	<i>Architecture</i> < up - delete BASE-R		Comment Status D r register refers to any member at nomenclature is used."	r of the MultiGBA	ASE-T set of PHYs	<i>EZ</i> s, as
SuggestedRemedy Delte "O" in columns for	r Clauses 107, 109, 109A and	109B		SuggestedRemedy It is not "Clause 1.4", it i	s "1.4" as in subclause 1.4.			
Proposed Response PROPOSED ACCEPT Duplicate of comment 3				Proposed Response PROPOSED ACCEPT.	Response Status W			
C/ 113 SC 113.1 Law. David	P 81 Hewlett Packa	L 22	# 106	C/ 113 SC 113.1.1 ZImmerman, George	P 81 CME Consultir	L 53 ng, Inc.	# 45	
Comment Type E	Comment Status D ment. This clause also specifie	·	EZ changed to read ' in	Comment Type E typo - tranfer SuggestedRemedy change "tranfer" to "tran	Comment Status D			EZ
See comment. Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W			

C/ 113 SC 113.1.1

C/ 113 SC 113.1.2 Law, David	P 82 Hewlett Packa	L 28	# 107		C/ 113 SC 113.1.3 Hajduczenia, Marek		P 83 ight House N	L 7	# 26
Comment Type E Suggest that 'AUTO-NE	GOTIATION' be replaced with ams since the abbreviation AN	n 'AN' in both the		EZ	Comment Type T "modulation symbol ra much more precise y	Comment Stat ate of 2000 Msymbol	<i>tus</i> D s/s results in	a symbol period	•
SuggestedRemedy See comment.					SuggestedRemedy Change "500.0 ps" to	"500 ps"			
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCEF	Response Stat PT.	us W		
C/ 113 SC 113.1.2 Law, David	P 82 Hewlett Packa	L 30 Ird Enterp	# 108		C/ 113 SC 113.1.3 Law, David		P 85 ewlett Packare	L 19 d Enterp	# 110
Comment Type E The solid line from the C similar lines. SuggestedRemedy See comment. Proposed Response PROPOSED ACCEPT.	Comment Status D DSI layers to the top of the MEI Response Status W	DIUM should be	dotted as are other	ΕΖ	4 '25GBASE-T and 4 service interface', and text. SuggestedRemedy Suggest that:	OGBASE-T service i I is not used in the P	shown conner nterfaces', is CS state diag	not listed in sub gram on referenc	ced in the PCS related
C/ 113 SC 113.1.2 Law, David	P 82 Hewlett Packa	L 44 Ird Enterp	# 109		PCS TRANSMIT & [[2] Remove the 'link_s	RANSMIT CONTRestatus' signal from fig	OL' block in f jure 113-5 'P	igure 113-3 'Fur CS reference di	
twisted-pair structured c	Comment Status D Ir pairs of balanced cabling.' sl abling.'.	hould read ' ove		ibling ed	[3] Remove the 'link_s 'PMA SERVICE INT [4] Update the variabl variables' to read 'The communicated throug	ERFACE ['] in figure 11 e definition for 'link_s e link_status paramet	13-23 'PMA re status' in subo ter set by PM	eference diagra clause 113.4.5.4 A Link Monitor s	1 'State diagram
SuggestedRemedy See comment. Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED REJEC PMA_LINK.indication independent interface	is defined under 11		communicates a	as well to the technology

C/ 113 SC 113.1.3

C/ 113 SC 113.1.3.3				
C/ 113 SC 113.1.3.3 Law, David	P 88 Hewlett Packard	L 24 Enterp	# 111	C/ 113 SC 113.12.1.2 P 200 L 30 # 18 Anslow, Pete Ciena
Comment Type E C This subclause states that su PMA_PBO_Exch state.'.	Comment Status D upport for the EEE capability	y is advertised ' o	<i>Editorial</i> during the	Comment Type E Comment Status D "IEEE Std 802.3-201x, Clause 113" should be "IEEE Std 802.3bq-201x, Clause 113" On line 38, "conform to IEEE Std 802.3-201x" should be "conform to IEEE Std 802.3bq-201x"
SuggestedRemedy Either add a cross reference introduction text, change the startup.'. Proposed Response R PROPOSED ACCEPT IN P	text ' during the PMA_PB0 Response Status W			SuggestedRemedy Change "IEEE Std 802.3-201x, Clause 113" to "IEEE Std 802.3bq-201x, Clause 113" On line 38, change "conform to IEEE Std 802.3-201x" to "conform to IEEE Std 802.3bq-201x Proposed Response Response Status W PROPOSED ACCEPT.
Change text reading "during C/ 113 SC 113.1.5	-	to read "during li	nk startup." # 112	C/ 113 SC 113.2.1.2 P 90 L 41 # 113 Law, David Hewlett Packard Enterp Hewlett Packard Enterp Hewlett Packard Enterp Hewlett Packard Enterp
Not sure what a 'logical 25GI 25GMII/XLGMII, if implemen SuggestedRemedy Suggest the text ' at the MI	nted. DI and at a logical 25GMII/XI	plementations be		This subclause states that 'This primitive informs the PCS, PMA PHY Control function, and the Auto-Negotiation algorithm about the status of the underlying link.'. 'PMA_LINK.indication' however is not listed in subclause 113.2.2 'PMA service interface', so is not passed to the PC and 'PMA_LINK.indication', nor the link_status parameter communicated by this primitive, are used in Figure 113–30 'PHY Control state diagram'. <i>SuggestedRemedy</i>
read ' at the MDI and at the Proposed Response R PROPOSED ACCEPT.	e 25GMII/XLGMII, if impleme Response Status W	ented.'.		Suggest the text 'This primitive informs the PCS, PMA PHY Control function, and the Auto- Negotiation algorithm about the status of the underlying link.' be changed to read 'This primitiv informs the Auto-Negotiation algorithm about the status of the underlying link.'. Proposed Response Response Status W
Cl 113 SC 113.12.1.1 Anslow, Pete	<i>P</i> 200 Ciena	L 18	# 17	PROPOSED ACCEPT.
Comment Type E 0	Comment Status D	ices of "enquiries"	<i>EZ</i> to "inquiries" in 802.3	

C/ 113 SC 113.2.1.2

C/ 113 SC 113.2.1.2.1 P 90 L 50 # 114 Law, David Hewlett Packard Enterp Hewlett Packard Ent	C/ 113 SC 113.2.2.3.2 P 94 L 32 # 116 Law, David Hewlett Packard Enterp Hewlett
Comment Type T Comment Status D State diagrams While not used by 25GBASE-T or 40GBASE-T, for completeness, and to match the definition in Clause 28, suggest that the READY value be listed as well. Suggested Remedy Suggested Remedy Suggest that: Suggest that: Suggest that:	Comment Type T Comment Status D Ref Mode This subclause states that 'The PCS generates PMA_UNITDATA.request (SYMB_4D) synchronously with every transmit clock cycle.'. As well as SYMB_4D, the value ALERT can also be conveyed by this message (see subclause 113.2.2.3.1). Shouldn't this case also be covered, if so the simplest approach would appear to be to send a PMA_UNITDATA.request message every clock cycle.
 [1] The text ' can take on one of two values: FAIL or OK.' be changed to read ' can take on one of three values: FAIL, READY, or OK.'. [2] Add the text 'READY For 25GBASE-T and 40GBASE-T link_status does not take the value READY.' between 'FAIL' and 'OK'. 	SuggestedRemedy Suggest that 'The PCS generates PMA_UNITDATA.request (SYMB_4D) synchronously with every transmit clock cycle.' should be changed to read 'The PCS generates PMA_UNITDATA.request synchronously with every transmit clock cycle.'.
Proposed Response Response Status W PROPOSED REJECT. Removed in response to prior ballot comments, and not needed for 25G/40GBASE-T	Proposed Response Response Status W PROPOSED ACCEPT.
V 113 SC 113.2.1.2.3 P 91 L 11 # 115	C/ 113 SC 113.2.2.5 P 105 L 53 # 47 ZImmerman, George CME Consulting, Inc. CME Consulting, Inc. 47
aw, David Hewlett Packard Enterp Comment Type T Comment Status D Ref Model This subclause states that 'The effect of receipt of this primitive is specified in 113.3.6.2.' however 'PMA_LINK.indication', nor the 'link_status' parameter communicated by this primitive, are referenced in subclause 113.3.6.2 'State diagram parameters' for the PCS state diagrams. Instead this primitive is generated by the Link Monitor state diagram and used by Auto-Negotiation. SuggestedRemedy	Comment Type E Comment Status D Editoria Editors note no longer applicable SuggestedRemedy
Suggest the text 'The effect of receipt of this primitive is specified in 113.3.6.2.' should be replaced with 'Auto-Negotiation uses this primitive to detect a change in link_status as described in Clause 28.'.	C/ 113 SC 113.3.2.1 P 99 L 52 # 117 Law, David Hewlett Packard Enterp Hewl
Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D State diagrams This subclause states that 'PCS Reset sets pcs_reset=ON while' however subclause 113.3.6.2.2 'Variables' defines pcs_reset as a Boolean. State diagrams
	SuggestedRemedy Suggest that ' sets pcs_reset=ON' should be changed to read ' sets pcs_reset = true'.
	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 113 SC 113.3.2.1

Editorial

C/ 113	SC 113.3.2.2	P 100	L 18	# 119
Law, David		Hewlett Packa	rd Enterp	

Comment Status D

This paragraph states '... the transmit channel is in normal mode ...' however 'normal mode' is not described until five paragraph below where it is stated 'In the normal mode of operation, the PMA_TXMODE.indication message has the value SEND_N ...'. In addition, it seems some of this text in this paragraph is duplicative of the text five paragraphs below. For example it states '... the PCS Transmit process then transcode the first 96 25GMII transfers for 25GBASE-T, or 48 XLGMII transfers for 40GBASE_T into 512B/513B blocks ...', five paragraphs below it states '... the PCS Transmit function uses a 65B coding technique, transcode to a mixed 513B-65B-RS-FEC-LDPC encoding to generate at each symbol period code-groups ...'.

Note: I have submitted another comment on this paragraph in respect to the need to include a 'shall' statement.

SuggestedRemedy

Comment Type

Е

Suggest that paragraph four be deleted, with its content combined in to the ninth paragraph. The ninth paragraph would then read 'If a PMA_TXMODE.indication message has the value SEND_N, the PCS is in the normal mode of operation, and the PCS Transmit process shall continuously generates 65B blocks based upon the TXD <31:0> and TXC <3:0> signals on the 25GMII for 25GBASE-T, or the TXD <63:0> and TXC <7:0> signals on the XLGMII for 40GBASE-T. The subsequent functions of the PCS Transmit process then transcode the first 96 25GMII transfers for 25GBASE-T, or 48 XLGMII transfers for 40GBASE_T into 512B/513B blocks, append the subsequent four 25GMII transfers (25GBASE-T), or two XLGMII transfers (40GBASE-T) as (non-transcoded) 64B/65B blocks, scramble the bits, pack the resulting blocks, appending an unscrambled auxiliary bit, and split the bits into two sets. The first set is encoded by a Reed-Solomon encoder, and the second set is processed by a low density parity check (LDPC) encoder and then the two sets are joint mapped into a transmit LDPC frame of DSQ128 symbols. Transmit data-units are sent to the PMA service interface via the PMA UNITDATA.request primitive.'.

Proposed	d Respon	se	Response Status	w			
Prop			lear evidenced by Cl	ause 55	resulting in inter	operable 10GBASE-T	
C/ 113	SC	113.3.2.2	P 1	00	L 3	# 118	
Law, Dav	rid		Hewle	ett Packa	ard Enterp		
Commen Shou			Comment Status ne PCS 64B/65B Tra	_	tate diagram.		ΕZ
Suggeste	edRemed	y					
	,		diagram in Figure 11 e 113-19, and to the		id the' to read '	state diagram in	
Proposed	,	se ACCEPT.	Response Status	w			

C/ 113 S	C 113.3.2.2	P 100	L 35	# 120
Law, David		Hewlett Packa	ard Enterp	
Comment Type	т	Comment Status D		State diagrams

While this subclause states that the PCS transmit function shall meet the PCS state diagram (Figure 113-18) and bit ordering (Figures 113–6 and 113–8) I don't believe that either of these address the operation of what appears to be a three way multiplexor controlled by the PMA_TXMODE.indication parameter tx_mode which selects between training (SEND_T), normal (SEND_N) and sending zeros (SEND_Z). There does appear to be a description of this in paragraphs six, seven and nine of this subclause, however they do not contain 'shall' statements, nor does it appear there are any related shall statements elsewhere. Based on this there doesn't appear to be any 'shall' statements in relation to the control of the parameter tx_mode.

SuggestedRemedy

Suggest that:

[1] The text '... has the value SEND_Z, PCS Transmit passes a vector of zeros ...' be change to read '... has the value SEND_Z, PCS Transmit shall pass a vector of zeros ...'.
[2] The text '... has the value SEND_T, PCS Transmit generates sequences ...' be changed to read '... has the value SEND_T, PCS Transmit shall generate sequences ...'.

[3] The text 'In the normal mode of operation, the PMA_TXMODE.indication message has the value SEND_N, and the PCS Transmit function uses a \ldots ' to read 'If a

PMA_TXMODE.indication message has the value SEND_N, the PCS is in the normal mode of operation, and the PCS Transmit function shall use a

[4] The PICS be updated to add these three new shall statements.

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 113	SC 113.3.2.2	P 100	L 38	# 121
Law, David		Hewlett Packa	ard Enterp	

Comment Type T Comment Status D State diagrams

Subclause 113.3.2.2 states that when tx_mode = SEND_T the '... PCS Transmit generates sequences of code-groups (TAn, TBn, TCn, TDn) defined in 113.3.4.2 ...' and that when tx_mode = SEND_N the '... PCS Transmit function uses a 65B coding technique ...' but there seems to be no description of the transition from the tx_mode = SEND_T to SEND_N. I assume however the transition from the tx_mode = SEND_T to SEND_N state needs to ensure that the first LDPC frame sent is complete.

SuggestedRemedy

Suggest that a statement be added to subclause 113.3.2.2 that on the transition from the tx_mode = SEND_T to SEND_N the PCS shall ensure this results in the transmission a of complete first LDPC frame.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Task force to discuss with comment 140

TYPE: TR/technical required ER/editorial required GR/generation	C/ 113	Page 8 of 30	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 113.3.2.2	11/4/2015 4:15:31 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 113 SC 113.3.2.2.11 P 109 L 16 # 129 Law, David Hewlett Packard Enterp Hewlett Packard Enterp Hewlett Packard Enterp Hewlett Packard Enterp	C/ 113 SC 113.3.2.2.13 P 109 L 33 # 49 ZImmerman, George CME Consulting, Inc.
Comment Type T Comment Status D EZ This subclause states ' only valid on the first octet of the 25GMII (TXD<0:3> and RXD<0:3>) '. Is this correct, shouldn't these be 8 bits?	Comment Type E Comment Status D EZ Space should be nonbreaking
SuggestedRemedy Suggest that ' only valid on the first octet of the 25GMII (TXD<0:3> and RXD<0:3>)' should	SuggestedRemedy See comment Proposed Response Catus W
read ' only valid on the first octet of the 25GMII (TXD<7:0> and RXD<7:0>)'. Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT. C/ 113 SC 113.3.2.2.11 P 109 L 16 # 130	C/ 113 SC 113.3.2.2.15 P 110 L 1 # 50 ZImmerman, George CME Consulting, Inc.
Law, David Hewlett Packard Enterp Comment Type E Suggest that ' TXD<0:7> and RXD<0:7>).' should read ' TXD<7:0> and RXD<7:0>).	Comment Type E Comment Status D Editorial needs to include 25GMII with XLGMII SuggestedRemedy SuggestedRemedy SuggestedRemedy
SuggestedRemedy See comment. Proposed Response Response Status W	Change to "Where the XLGMII" to "Where the 25GMII or XLGMII" Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT.	C/ 113 SC 113.3.2.2.15 P 110 L 5 # 132
C/ 113 SC 113.3.2.2.11 P 109 L 17 # 131	Law, David Hewlett Packard Enterp Comment Type E Comment Status D EZ
Law, David Hewlett Packard Enterp	Suggest that the actual title of the state diagram he used, and a cross reference added
Comment Type E Comment Status D E2 Suggest that ' octet of TxD' should read ' octet of TXD'.	SuggestedRemedy
SuggestedRemedy	Suggest that the text ' as specified in the transmit process state diagram.' be changed to read ' as specified in the PCS 64B/65B Transmit state diagram (see Figure 113–17 and 113-18).'.
See comment. Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
	C/ 113 SC 113.3.2.2.16 P 110 L 31 # 51 ZImmerman, George CME Consulting, Inc. CME Consulting, Inc. CME Consulting, Inc. CME Consulting, Inc.
	Comment Type E Comment Status D Editorial 64/65b are BASE-T codes, not the BASE-R codes Editorial Editorial Editorial
	SuggestedRemedy Change 25GBASE-R and 40GBASE-R to 25GBASE-T and 40GBASE-T
	Proposed Response Response Status W PROPOSED 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/	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 113.3.2.2.16 11/4/2015 4:15:31 PM SORT ORDER: Clause, Subclause, page, line

C/ 113 SC 113.3.2.2.16	P 111	L 22	# 27		C/ 113	SC 113.3.2.	2.4	P 101	L 48	# 122
Hajduczenia, Marek	Bright House N	etwork			Law, David			Hewlett Packa	ard Enterp	
Comment Type E Comm	nent Status D			ΕZ	Comment T	уре Т	Commen	t Status D		PICS
"Block field (see Figure 113–10)"										113–6 and Figure
SuggestedRemedy									hat found in the fi	rst paragraph of ansmit function shall
make sure that "(see" starts in the	second line - it is not	very readable.							gure 113–6 and F	
Proposed Response Respon	nse Status W				SuggestedF	Remedy		_	-	-
PROPOSED ACCEPT.					Sugges	t that:				
C/ 113 SC 113.3.2.2.20	P 115	L 22	# 52		[1] The	text 'The PCS '	Transmit bit or	dering shall conf	form to Figure 113	-6 and Figure 113-8.'
ZImmerman, George	CME Consulting		11 JZ		be chan	ged to read 'Th				113–6 and Figure
	nent Status D	9,		ΕZ	113–8.'.		a reference fo		T2 be abanged fr	rom 113.3.2.2.4 to
Hyphen should be nonbreaking				LZ	113.3.2		S-Telefence To		TS be changed if	0111 113.3.2.2.4 10
SuggestedRemedy					Proposed R	esponse	Response	Status W		
See comment					PROPC	SED ACCEPT				
Proposed Response Respon	nse Status W				C/ 113	SC 113.3.2.	24	P 101	L 48	# 123
PROPOSED ACCEPT.					Law, David			Hewlett Packa		
C/ 113 SC 113.3.2.2.24	<i>P</i> 119	L 25	# 133		Comment T	ype E	Commen	t Status D		Editorial
Law, David	Hewlett Packard		100							XGMII to 64B/65B
	nent Status D		Pofl	Model						self doesn't provide this ure on the figure itself.
It is the tx symb vector parameter		ATA request prir				00	be beller to pr		respect to the ligi	ure on the ligure itself.
the value ALERT (see subclause 1	113.2.2.3.1). As a res	ult of that the ne	xt time the		SuggestedF	-	Note that this f	iouro obouro tho	monning from VC	MIL to GAD/GED block
PMA_UNITDATA.request messag	ge is sent it will have t	he value ALERT								MII to 64B/65B block igures 113-6 and 113-8.
SuggestedRemedy								o Figure 113-7.	, ,	0
Suggest the text ' the PMA_UNI				-	Proposed R	esponse	Response	Status W		
changed to read ' the PMA_UNIT ALERT.'.	i DA i A.request parar	neter tx_symb_v	ector is set to the v	alue	PROPC	SED ACCEPT				
Proposed Response Respon	nse Status W									
PROPOSED ACCEPT.										

C/ 113 SC 113.3.2.2.4

C/ 113 SC 113.3.2.2.4 P 102 L 11 # 124	C/ 113 SC 113.3.2.2.5 P 103 L 13 # 126
Law, David Hewlett Packard Enterp	Law, David Hewlett Packard Enterp
Comment Type E Comment Status D PCS The 65B block is actually the output of the PCS 64B/65B Transmit state diagram (figure 113-18 and 113-19). See definition of tx_coded<64:0> in subclause 113.3.6.2.2 and description subclause 113.3.6.2.2 and description subclause 113.3.2.2.15 which states 'The contents of each block are contained in a vector tx_coded<64:0>'. SuggestedRemedy Suggest that in Figure 113-6: [1] The text 'Output of encoder function 65B block' be changed to read 'Output of encoder function 65B block (see figure 113-18 and 113-19)' [2] Label the 'Data/Ctrl header' bit as tx_coded<0> and bit 7 of D7 as tx_coded<64>. Proposed Response Response Status W	Comment Type E Comment Status D PC The 65B block is actually the input to the PCS 64B/65B Receive state diagram (figure 113-20 and 113-21). See definition of rx_coded<64:0> in subclause 113.3.6.2.2.'. SuggestedRemedy SuggestedRemedy Suggest that in Figure 113–7: [1] The text 'Input to decoder function 65B block' be changed to read 'Input to decoder function 65B block (see figure 113-20 and 113-21)' [2] Label the 'Data/Ctrl header' bit as rx_coded<0> and bit 7 of D7 as rx_coded<64>. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Implement suggestion [1]
PROPOSED ACCEPT IN PRINCIPLE. Implement suggestion [1] Do not implement suggestion [2] on Figure 113-6, as it will make the figure very crowded <i>Cl</i> 113 SC 113.3.2.2.5 <i>P</i> 103 <i>L</i> 12 # 125 Law, David Hewlett Packard Enterp <i>Comment Type</i> E <i>Comment Status</i> D <i>EZ</i> Suggest the subscripts be removed from D0 through D2 as subscripts aren't used elsewhere in the figure. <i>SuggestedRemedy</i> See comment.	do not implement suggestion [2] as it would make the figure quite crowded. Cl 113 SC 113.3.2.2.6 P 106 L 40 # 127 Law, David Hewlett Packard Enterp Comment Type E Comment Status D E Suggest that '25GMII/XLGMII encodes a control' be changed to read 'The 25GMII/XLGMII encodes a control'. SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT. W
Proposed Response Response Status W PROPOSED ACCEPT.	Cl 113 SC 113.3.2.2.6 P 106 L 44 # 128 Law, David Hewlett Packard Enterp Comment Type E Comment Status D E Close brackets without open brackets. SuggestedRemedy Suggest that ' into a 7-bit C code).' be changed to read ' into a 7-bit C code.'. Proposed Response Response Status W PROPOSED ACCEPT. E Comment Status Comment Status Comment Status

C/ 113 SC 113.3.2.2.6

C/ 113 SC 113.3.2.2.		L 33	# 48	C/ 113 SC 11:	3.3.2.3	P 120	L 23	# 137
ZImmerman, George	CME Consulti	ng, Inc.		Law, David		Hewlett Packa	ard Enterp	
Comment Type E	Comment Status D		PCS	Comment Type	Г	Comment Status D		State diagrams
Table 113-1 footnote a is SuggestedRemedy Delete footnote a	s inappropriate			PCS_status is pr state. It is only tro parameter is defi	ovided w ue if bloc	us' seems to be the only loc here it states that 'Indicates k_lock is true and hi_lfer is f aving the values 'OK' and 'N	whether the PC alse.'. In addition	S is in a fully operational n the PCS_status
Proposed Response PROPOSED ACCEPT.	Response Status W			and 'false'. Since this is a su	Ibclause	of 113.3.7 'PCS manageme	nt' suggest this i	is not the best place to
C/ 113 SC 113.3.2.3 Law, David	P 120 Hewlett Packa	L 10 ard Enterp	# 135	provide the only o	definition.	Instead, since Figure 113-3 ggest this definition be provi	3 shows PCS_st	tatus sourced from the
Comment Type T	Comment Status D		PCS	SuggestedRemedy				
the PCS 64B/65B Received rx_coded<64:0>.	ould mention that the 64B/65E ive state diagrams by decodin			the PCS Receive asserted, the PC	e process S_status	113.3.2.3 'PCS Receive fur continuously accepts block parameter of the PMA_PC cess continuously accepts b	s.' be changed t SSTATUS.reque	o read ' hi_lfer is de-
SuggestedRemedy				Proposed Response		Response Status W		
two 32-bit data blocks in	transcoded to 64B/65B, and the the case of 25GBASE-T, or 6	64-bit data blocks	for 40GBASE-T to	PROPOSED AC				
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 64		64-bit data blocks he 25GMII/XLGM s the 64B/65B blo	for 40GBASE-T to II.' be changed to read ock vector	PROPOSED AC	CEPT.	P 120 Hewlett Packa	L 3 ard Enterp	# 134
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 64 rx_coded<64:0> which i for 25GBASE-T or RXD	the case of 25GBASE-T, or 6 and RXC for transmission to the B/65B. This process generate	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0>	Cl 113 SC 11 Law, David Comment Type	CEPT. 3.3.2.3	P 120 Hewlett Packa Comment Status D	-	
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 64 rx_coded<64:0> which i for 25GBASE-T or RXD	the case of 25GBASE-T, or (and RXC for transmission to tl B/65B. This process generate s then decoded to form the 25 I<63:0> and RXC<7:0> for 40	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0>	<i>Cl</i> 113 <i>SC</i> 11 : Law, David	CEPT. 3.3.2.3	P 120 Hewlett Packa Comment Status D	-	# [<u>134</u> EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 64 rx_coded<64:0> which i for 25GBASE-T or RXD 64B/65B Receive state of	a the case of 25GBASE-T, or (and RXC for transmission to the B/65B. This process generate s then decoded to form the 25 D<63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0>	Cl 113 SC 11 Law, David Comment Type	CEPT. 3.3.2.3	P 120 Hewlett Packa Comment Status D	-	
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 64 rx_coded<64:0> which i for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT.	a the case of 25GBASE-T, or (and RXC for transmission to the B/65B. This process generate s then decoded to form the 25 D<63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0>	Cl 113 SC 11 Law, David Comment Type E Update the cross SuggestedRemedy	CEPT. 3.3.2.3	P 120 Hewlett Packa Comment Status D	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded<64:0> which i for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT.	a the case of 25GBASE-T, or (and RXC for transmission to the B/65B. This process generate s then decoded to form the 25 D<63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'.	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS	Cl 113 SC 11: Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the	CEPT. 3.3.2.3 F reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D ee.	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded<64:0> which is for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT.	a the case of 25GBASE-T, or (and RXC for transmission to the B/65B. This process generate s then decoded to form the 25 D<63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W <i>P</i> 120	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'.	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS	Cl 113 SC 113 Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the Figure 113–21	CEPT. 3.3.2.3 e reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D re. Figure 113–20' be chang	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded<64:0> which is for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT. C/ 113 SC 113.3.2.3 Law, David Comment Type E Suggest the text ' by s	a the case of 25GBASE-T, or (and RXC for transmission to th B/65B. This process generate s then decoded to form the 25 I<63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W <i>P</i> 120 Hewlett Packa	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'. <i>L</i> 18 ard Enterp Is to OK.' be chan	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS # 136 EZ ged to read ' by	Cl 113 SC 113 Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the Figure 113–21 Proposed Response	CEPT. 3.3.2.3 e reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D re. Figure 113–20' be chang	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded-64:0> which is for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT. C/ 113 SC 113.3.2.3 Law, David Comment Type E Suggest the text ' by s setting the scr_status pa	a the case of 25GBASE-T, or (and RXC for transmission to th B/65B. This process generate s then decoded to form the 25 <63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W <i>P</i> 120 Hewlett Packa <i>Comment Status</i> D etting the parameter scr_statu	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'. <i>L</i> 18 ard Enterp Is to OK.' be chan	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS # 136 EZ ged to read ' by	Cl 113 SC 113 Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the Figure 113–21 Proposed Response	CEPT. 3.3.2.3 e reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D re. Figure 113–20' be chang	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded<64:0> which is for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT. C/ 113 SC 113.3.2.3 Law, David Comment Type E Suggest the text ' by s setting the scr_status pa	a the case of 25GBASE-T, or (and RXC for transmission to th B/65B. This process generate s then decoded to form the 25 <63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W <i>P</i> 120 Hewlett Packa <i>Comment Status</i> D etting the parameter scr_statu	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'. <i>L</i> 18 ard Enterp Is to OK.' be chan	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS # 136 EZ ged to read ' by	Cl 113 SC 113 Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the Figure 113–21 Proposed Response	CEPT. 3.3.2.3 e reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D re. Figure 113–20' be chang	ard Enterp	EZ
two 32-bit data blocks in obtain the signals RXD a ' are transcoded to 644 rx_coded<64:0> which is for 25GBASE-T or RXD 64B/65B Receive state of Proposed Response PROPOSED ACCEPT. C/ 113 SC 113.3.2.3 Law, David Comment Type E Suggest the text ' by s setting the scr_status pa SuggestedRemedy	a the case of 25GBASE-T, or (and RXC for transmission to th B/65B. This process generate s then decoded to form the 25 <63:0> and RXC<7:0> for 40 diagram (see Figure 113–20 a <i>Response Status</i> W <i>P</i> 120 Hewlett Packa <i>Comment Status</i> D etting the parameter scr_statu	64-bit data blocks he 25GMII/XLGM s the 64B/65B blo GMII signals RXI GBASE-T, as spe nd 113-21).'. <i>L</i> 18 ard Enterp Is to OK.' be chan	for 40GBASE-T to II.' be changed to read ock vector D<31:0> and RXC<3:0> ecified in the PCS # 136 EZ ged to read ' by	Cl 113 SC 113 Law, David Comment Type E Update the cross SuggestedRemedy Suggest that the Figure 113–21 Proposed Response	CEPT. 3.3.2.3 e reference text ' in	P 120 Hewlett Packa <i>Comment Status</i> D re. Figure 113–20' be chang	ard Enterp	EZ

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

C/ 113 SC 113.3.2.3

C/ 113	SC	113.3.6.1	P 135	L 2	# 140		C/ 113	SC
Law, David	ł		Hewlett P	ackard Enterp			Law, David	
Comment	Туре	т	Comment Status D		State o	liagrams	Comment T	уре
PHY C definit value o the M/ 64B/6 PHY is SEND at the	Control ion for t of this v AC cou 5B Trai 5B Trai 5B Trai 5 in trai 0_N occ receive	State Diagra the pcs_data variable is TF Id send a pa nsmit state c ning mode. ⁻ curring mid p	5B Transmit state diagr. m when EEE is not impl _mode variable in subcl RUE'. Hence once 'pcs_ cket (it does not take acc liagram to start encoding This could then result in acket resulting in the tra when EEE is implemente	lemented. In this cas ause 113.4.5.1, the reset = false' and the count of link_status) g the packet on to tx_1 the transition from the nsmission of a trunc	se, as stated in the 'PHY operates as i e PHY enterers trai causing the PCS _coded even though the tx_mode = SEN cated frame and an	f the ning, n the D_T to error	Delete t since fo [1] The referenn The inp which is can be on the p 'rx. cod	or the f messa ced in out to F s the 'li seen in parame
Suggested		dy					[2] The referen	messa
ipcs_o the 'T	data_m X_INIT' e new "	ode', sets 'tx state. This e	ate be added that is enter _coded <= LBLOCK_T', ensure reset is only exite state is also entered uni	, and exited on 'T_T' d during idle.	YPE(tx_raw) = C +		block' ir number messag [3] 'PC generat Suggestedf	of pro ge 'PM S_statu ed or u
Proposed	Respo	nse	Response Status W				Delete 1	
PROF	POSED	ACCEPT IN	N PRINCIPLE.					
		discuss. ate diagram	control has been operati	onal in 10GBASE-T	systems without re	eport of	Proposed F PROPO	
the pro	oblem i	ndicated. If	a change is needed, rec					
reques	st on C	ause 55.					C/ 113	SC
C/ 113	SC	113.3.6.2.2	P 128	L 34	# 138		Law, David	
Law, David	ł		Hewlett P	ackard Enterp		-	Comment T	уре
diagra	ause 11 Ims follo	ows the conv	Comment Status D entions in this clause' sta rentions of 21.5.' and IEE ((a test of equality)' as '=	EE Std 802.3 Table			There s possible 'T_TYP 'T_TYP 'T(T_T'	e value E(tx_r E(tx_r
Suggested Chance		,	s of '==' to read '='.				bracket use the	s wher Indica
Proposed			Response Status W				'T_TYP	• –
		ACCEPT.					Suggested	
	5620						Please set of p	
							Proposed F	Respor

C/ 113	SC 113.3.6.3	P 132	L 1	# 139
Law, David		Hewlett Pac	kard Enterp	
Comment Ty	pe T	Comment Status D		State diagrams

ubclause 113.3.6.3 'Messages', a subclause 113.3.6.2 'State diagram parameters' following reasons there are not related to the state diagram.

sage 'PMA_UNITDATA.indication' and the parameter 'rx_symb_vector' are not n the PCS state diagrams.

Figures 113-18 and 113-19 'PCS 64B/65B Receive state diagram' are 'rx coded' 'Input to decode function 65B block' in Figure 113-7 'PCS Receive bit ordering'. As in that figure, there are a number of processes that have already been performed neter 'rx_symb_vector' from the message 'PMA_UNITDATA.request' before presented as the input to the PCS state diagram.

sage 'PMA UNITDATA.request' and the parameter 'tx symb vector' are not n the PCS state diagrams. The output of Figures 113-20 and 113-21 'PCS ansmit state diagram' are 'tx coded' which is the 'Output of encoder function 65B ure 113-6 'PCS transmit bit ordering'. As can be seen in that figure, there are a rocesses that have to be performed before the parameter 'tx symb vector' for the MA_UNITDATA.request' is generated.

atus' is not a message, but instead a parameter of a message, regardless it is not used by the by the PCS state diagrams.

edy

ubclause 113.3.6.3 'Messages'.

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 113	SC 113.3.6.4	P 135	L 8	# 141
Law, David		Hewlett Packa	rd Enterp	
Comment Ty	vpe T	Comment Status D		EZ

to be three different formats used for when comparing T TYPE(tx raw) to a set of ues On line 8 there is the example where the options are in brackets: raw) = (E + D + LI + T); on line 10 there is an example where they are not: raw) = C + LII': and on line 16 the brackets are around the whole equation: tx raw) = C+LII)'. Suggest that the first example, where the options are listed in ere there is more than one, be used. And strictly speaking shouldn't these actually cates membership' character ' \in ' rather than the '=' character. If so the first example _raw) = (E + D + LI +T)' would read 'T_TYPE(tx_raw) ∈ {E, D, LI, T}'.

edy

a consistent format when comparing T_TYPE(tx_raw) and R_TYPE(rx_coded) to a ole values

onse Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/gener	C/ 113	Page 13 of 30	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 113.3.6.4	11/4/2015 4:15:31 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 113 SC 113.4.2.2.1	P 142	L 12	# 28	C/ 113 SC 113.4.2.5.3	<i>P</i> 147	L 10	# 56
Hajduczenia, Marek	Bright House No	etwork		ZImmerman, George	CME Consultin	ng, Inc.	
Comment Type E	Comment Status D		Editorial	Comment Type E	Comment Status D		EZ
It would be much clearer for were given in a tabular form				Clean up figure 113-28, t SuggestedRemedy	ick marks for bit settings prot	rude below line,	align labels
SuggestedRemedy				See comment			
Please consider putting the not changed text, but then it	5	r descriptions. A	And yes, I do realize it is	Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCEPT.			
PROPOSED REJECT. The text as it is will be famil reader confusion that the su		55. Changing	its format may cause	C/ 113 SC 113.4.5.1 Law, David	<i>P</i> 1 57 Hewlett Packa	L 2 rd Enterp	# 144
	0	/ 05	# 440	Comment Type T	Comment Status D		State diagrams
C/ 113 SC 113.4.2.4 Law, David	P 144 Hewlett Packard	L 35 d Enterp	# 142		_control' variable states 'This e 28.2.6.2 defines the PMA_		
Comment Type E	Comment Status D		EZ	SuggestedRemedy			
Suggest that 'PMA Receive the'.	contains the' should read	'The PMA Rec	eive function contains		cription be changed to read " sed to the PMA via the PMA		
SuggestedRemedy See comment.				Proposed Response PROPOSED ACCEPT.	Response Status W		
Proposed Response I PROPOSED ACCEPT.	Response Status W			C/ 113 SC 113.4.5.1 Law, David	P 157 Hewlett Packa	L 5 rd Enterp	# 145
C/ 113 SC 113.4.2.4 Law, David	P 144 Hewlett Packard	L 39 d Enterp	# 143	Comment Type E Suggest that ' PMA Lin	Comment Status D k Monitor and' should read	' PMA Link M	EZ onitor state diagram and
Comment Type E	Comment Status D		EZ	····			Ū
Suggest that ' shall allow	_FER of' should read ' s	hall allow a LFE	R than' (missing 'a').	SuggestedRemedy See comment.			
SuggestedRemedy					5		
See comment.				Proposed Response	Response Status W		
Proposed Response I PROPOSED ACCEPT IN I Insert "an" to read:	Response Status W PRINCIPLE. ss than"			PROPOSED ACCEPT.			

C/ 113 SC 113.4.5.1

C/ 113 SC 113.4.6.1	P 162	L 45	# 147	C/ 113	SC 11:	3.5.4.3	P 174	L 24	# 96
_aw, David	Hewlett Packar	d Enterp		Cibula, Peter			Intel Corporation	on	
Comment Type T	Comment Status D		State diagrams	Comment Ty	ире т	-	Comment Status D		Clam
The variable 'pcs_status' i 113.4.5.1.	s not defined in the PMA state	e diagram varia	bles in subclause	stating th	hat the ca	alibrated	npairment signal power in 11 power "does not exceed 6	dBm" The ca	alibration procedure
SuggestedRemedy				+/- 10%.		5 TI3A, I	13A.3 Cable clamp validation	n uses a nomina	al value and a tolerance o
Suggest that variable desc	cription be added that reads:								
	r generated by the PCS and p est primitive (see 113.2.2.5).	assed to the P	MA via the		n Clause	e 113, th	procedure permits a maximu e normative text should identi		
Proposed Response	Response Status W						emedy, which explicitly identi		
PROPOSED ACCEPT IN PCS_status is defined un PCS. in error.	l PRINCIPLE. der "Messages" (113.3.6.3) P	132 L9, howev	er, it is uppercase in				nce, is better aligned with Cla .3.3) and a tolerance about th		
	'pcs_status" on P132 L9 and	throughout cla	use 113.	SuggestedR	emedy				
C/ 113 SC 113.4.6.1	P 162	L 8	# 146	Change	the text i	n 113.5.	4.3, Page 174, Lines 24 and	25 from	
Law, David	Hewlett Packar	÷	" 140	"A sine v	wave with	the am	olitude held constant over the	whole frequen	cv range from 80 MHz to
Comment Type E Mark the state box wide er	Comment Status D nough to fit the state name ins	ide.	EZ		oes not e	xceed 6	tude calibrated so that the sig dBm, is used to generate the rent."		•
SuggestedRemedy See comment.				to					
Proposed Response PROPOSED ACCEPT.	Response Status W			2000 MH	Hz, with t	he ampli	blitude held constant over the tude calibrated to a nominal s ed to generate the external el	signal power of	6 dBm measured at the
C/ 113 SC 113.5.4.3	P 174	L 14	# 92	shield cu	urrent."				
Thompson, Geoff	GraCaSI S.A.			and add	a footno	te to 113	.5.4.3 stating		
Comment Type E	Comment Status D		Cabling	"The 6d	⊇m nomi	nal maa	sured power may vary by +/-1	0% across from	wonow as discussed in
	grammatically indicate that a n the draft seem to indicate th			Annex 1	13A."	nai meas			dency as discussed in
SuggestedRemedy				Proposed Re	,	055T	Response Status W		
,	somehow indicate "when pres	ent" or change	the other two uses.	PROPO	SED AC	CEPT.			
Proposed Response	Response Status W	-							
PROPOSED REJECT.	,								
113 is shielded. Other inst shielded or unshielded cal	tances of shield are found in <i>i</i> bling.	Annex 113A wh	ich can be used for						

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

C/ 113 SC 113.5.4.3 Page 15 of 30 11/4/2015 4:15:31 PM

Cl 113 SC 113.5.4.3 McClellan, Brett	P 174 Marvell	L 25	# 74	<i>Cl</i> 113 <i>SC</i> 113.7.1 Maguire, Valerie	<i>P</i> 181 Siemon	L 20	# 36
Comment Type T It is unclear whether the 10% variation allowed by	<i>Comment Status</i> D signal power limit is 6dBm as Annex 113A.3.	stated in 113.5.	<i>Clamp</i> 4.3 or 6dBm plus the	Comment Type TR Recognize that up to 3 11801-9905, will supp	Comment Status D Om, 2-connector category 7A o ort 25GBASE-T.	channels, to be de	Cabling scribed in ISO/IEC TR
	Bm by adding this footnote: "1 iation mentioned in Annex 11:		ncludes the 10%		e_3bq_01_1115.pptx" to view t	0	h revision marks.
PROPOSED ACCEPT I OBE Comment 96				nominal impedance of	ed to support 40GBASE-T req 100 W listed in Table 113-21. 4-pair balanced cabling with a	The cabling syste	m used to support
C/ 113 SC 113.7 ZImmerman, George	P 181 CME Consultii	L 5 ng, Inc.	# 71		on on other classes of cabling		
simultaneously." Only refers to 40GBASE T. SuggestedRemedy	Comment Status D upports an effective data rate of -T. Explanatory statement ne and 6.25 Gb/s for 25GBASE- <i>Response Status</i> W	eds to be update	ed to include 25GBASE-	PHY entities. b) 40GBASE-T is an a additional transmissior limit calculation minim c)25GBASE-T uses b entities. d)25GBASE-T is an a additional transmissior	alanced cabling listed in Table pplication of the balanced cabl ins apply to the link segment s alanced cabling listed in Table oplication of the balanced cabling requirements specified in this uns apply to the link segment s <i>Response Status</i> W	ing listed in Table subclause. The lispecifications. 113-22- in a star to ng listed in Table subclause. The lis	113-21- with the SO/IEC 11801-1 cabling opology to connect PHY 113-21- with the

See resolution to comment#34. Resolve with comments 37,38

C/ 113 SC 113.7.1 Rossbach, Martin	<i>P</i> 181 Nexans	L 22	# 72	C/ 113 Maguire, V	SC 11	3.7.2	P 18 Siemon	L 43	# 37		
Comment Type T	Comment Status D		Cablin	-		ſR	Comment Status D		Cabling		
The Media Choices fo for 25GBase-T.	r 25GBASE-T are different to 4 icated TR, changed on input si		duce a new table 113-22	Reco 1180	nize that u -9905, will	ip to 30n	n, 2-connector category 7A 25GBASE-T.	channels, to be de	0		
SuggestedRemedy				Suggeste							
Add text to say: The c	abling system used to support 2 impedance of 100 listed in Ta		res 4-pair balanced	See page 4 of "maguire_3bq_01_1115.pptx" to see proposed table changes and to view these changes with revision marks.							
				Repla	ce clause 1	113.7.2,	starting at line 44, with:				
Proposed Response PROPOSED REJEC	Response Status W T.						pported cabling types and obling types and obling types and distances for		BASE-T and Table 113-		
The references in Tab 40GBASE-T.	le 113–21— Cabling types and	distances apply to	o 25GBASE-T and	Cablin ISO/II Categ Table Cablin ISO/II Categ Categ Proposed PROI See n	ig Supporte EC Class I ory 830 m/ 113-22 25 ig Supporte EC Class I ory 830 m/	ed link s / Class ANSI/TI/ GBASE ed link s / Class ANSI/TI/ nISO/IE JECT.		eferences tion 3 ces eferences			
				C/ 113 Maguire, V	SC 11	3.7.2	P 181 Siemon	L 38	# 35		
				Comment		ſR	Comment Status D		Cabling		
				The li		t consist	ts of up to 30m of "cabling"	Class I is not the	•		
				Repla	SuggestedRemedy Replace, "A link segment consisting of up to 30 m of Class I that meets the transmission parameters"						
				with, "A link segment consisting of up to 30 m of cabling that meets the transmission parameters							
				•	Response POSED AC		Response Status W				
TYPE: TR/technical requir	ed ER/editorial required GR/g	eneral required T/	technical E/editorial G/	eneral			CI ·	13	Page 17 of 30		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 113 Page 17 of 30 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 11/4/2015 4:15:31 PM SC 113.7.2 SORT ORDER: Clause, Subclause, page, line

C/ 113 SC 113.7.2	P 181	L 45	# 73	C/ 113 SC	113.7.2.3	P 182	L 24	# 30	
Rossbach, Martin	Nexans			Flatman, Alan		LAN Technolog	gies		
Comment Type T	Comment Status D		Cabling	Comment Type	TR	Comment Status D		Cabling	
	o Table "Cabling types and dis			ISO/IEC had	d been propo	q D2.0 proposed to change lin sing for Class I/II to the more	onerous TIA Ca	at 8 limits. It was agreed	
(note - commenter indicat	ted TR, changed on input sinc	e commenter is	n't listed in ballot pool)			ne Sep 2015 ISO/IEC meeting Note on line 43. A formal liaiso			
SuggestedRemedy						f its decision to introduce a sli			
Add ISO/IEC Class FA to	o Table "Cabling types and dis	tances"				Iz. I propose that this is adop			
Proposed Response	Response Status W			SuggestedReme	edy				
PROPOSED REJECT.						equirements of:			
parameters of 113.7.2 Lir	nt consists of up to 30 m of Cla nk segment transmission para channel to consider for complia	meters. ISO/IEC	C Class FA does not	19 dB 1-10 MHz 24-5log(f) dB 10-40 MHz 16 dB 40-130 MHz 35-9log(f) dB 130-1000 MHz					
C/ 113 SC 113.7.2.1	P 182	L 3	# 94		1000-2000 N due to the c	lose proximity of connectors in	short channels	s. when insertion loss at	
Thompson, Geoff	GraCaSI S.A.					channel return loss from 1600			
Comment Type TR	Comment Status D		Cabling	Proposed Respo	onse	Response Status W			
the 802.3 definitions for c	using the cabling industry defi channel -OR- it is using the the ink segment". I can't tell which	e term "duplex c	hannel" in place of the		ment return	oss specifications should be i	ndependent of	the link segments	
The term "duplex channe precise to overcome that	I" as defined in 802.3 is not pr deficiency.	ecise and the u	se here is not sufficiently	measured in	sertion loss.				
SuggestedRemedy									
	channel" and replace with "lin hnical values need to be adjus								
Proposed Response	Response Status W								
PROPOSED ACCEPT I	N PRINCIPLE.								
The 25GBASE-T and 40 four pairs of balanced cat	GBASE-T PHY each employ f bling.	ull duplex basel	band transmission over						
Editorial license to chang	e duplex channel to balanced	cable pair(s) wh	ere applicable.						

C/ 113 SC 113.7.2.3

C/ 113 SC 113.7.3.2.1 P 188 L 37 # 29 Hajduczenia, Marek Bright House Network Bright House	C/ 113.5 SC 113.5.2.1 P 170 L 17 # 75 Moffitt, Bryan CommScope CommScope CommScope CommScope
Comment Type T Comment Status D Cabling Statements like this are easy to bake into equation "When Equation (113–30) values are greater than 75 dB, they shall revert to 75 dB." without the need for separate PICS. There are a few of them baked into the draft right now	Comment Type E Comment Status D PMA Electric B not identified SuggestedRemedy delete or ID
SuggestedRemedy Consider changing Equation 113–30 to the following form PSAACRF(<i>f</i>) >= min(75, 61- 20log10(f/100)). Remove PICS associated with the requirement: "When Equation (113–30) values are greater than 75 dB, they shall revert to 75 dB.". Remove statement "When Equation (113–30) values are greater than 75 dB, they shall revert to 75 dB.".	Proposed Response Response Status W PROPOSED REJECT. While commenter is correct, the test fixture is identical to that in Clause 55, and differences with the Clause 55 figure may confuse the reader.
are greater than 75 dB, they shall revert to 75 dB.". Repeat the process for other equations that carry similar upper bounds on equation values. Repeat the process for other equations that carry similar lower bounds on equation values, using (max) rather than (min) function.	C/ 113.5 SC 113.5.2.1 P 170 L 41 # 76 Moffitt, Bryan CommScope CommSc
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. With editorial licence remove shalls from text limiting reported values e.g., Change:	Comment Type T Comment Status D PMA Electric why only up to 1600 MHz? Why no balun spec? SuggestedRemedy SuggestedRemedy Make full range. Also the balun should have some specification RL> 15 dB balance > 35 dB across 2GHz range State
Calculations that result in insertion loss values less than 2 dB shall revert to a requirement of 2 dB. To: Calculations that result in insertion loss values less than 2 dB revert to a requirement of 2 dB.	Proposed Response Response Status W PROPOSED REJECT. Specification is clear and proven for droop testing in 10GBASE-T.
C/ 113 SC 113.8.1 P 195 L 8 # 93 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. <t< td=""><td>C/ 113.5 SC 113.5.3.2 P 171 L 45 # 77 Moffitt, Bryan CommScope CommScope Fractional Science <</td></t<>	C/ 113.5 SC 113.5.3.2 P 171 L 45 # 77 Moffitt, Bryan CommScope CommScope Fractional Science <
Comment Type ER Comment Status D EZ The term "(published)" is unnecessary. It is assumed that all references are published. EZ	Comment Type E Comment Status D E Should identify the term SFDR E
SuggestedRemedy Remove the text: "(published)" Proposed Response Response Status W	SuggestedRemedy The Spurious-Free Dynamic Range (SFDR) of the transmitter Proposed Response Response Status W

C/ 113.5 SC 113.5.3.2

C/ 113.7 SC 113.7.1 P 181 L 34 # 78 Moffitt, Bryan CommScope CommScope </th <th>C/ 113.7 SC 113.7.4.1 P 189 L 13 # 81 Moffitt, Bryan CommScope CommScope Entert Entert</th>	C/ 113.7 SC 113.7.4.1 P 189 L 13 # 81 Moffitt, Bryan CommScope CommScope Entert Entert
Comment Type E Comment Status D Cabling What is the intent of this sentence that seems to single out the ISO spec? Cabling	Comment Type E Comment Status D Cabling Why does this IL have a 3 dB floor, while the other one has a 2 dB floor? Cabling
The ISO/IEC 11801-1 cabling limit calculation minimums apply to the link segment specifications.	SuggestedRemedy set to a common floor
SuggestedRemedy delete	Proposed Response Response Status W PROPOSED REJECT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	113.7.2.1 Insertion loss specification aligns with referenced cabling standards.
Change The ISO/IEC 11801-1 cabling limit calculation minimums apply to the link segment specifications.	113.7.4 Direct attach cable assembly is a short reach link segment supporting up to 5 meters. The specification aligns with referenced standards "Direct attach channel insertion loss"
To: The referenced cabling limit minimums apply to the link segment specifications. C/ 113.7 SC 113.7.2.1 P 182 L 15 # 79	C/ 113.7 SC 113.7.4.2 P 189 L 25 # 80 Moffitt, Bryan CommScope CommScope End
Moffitt, Bryan CommScope	Comment Type E Comment Status D E2
Comment Type E Comment Status D Cabling this solution isn't targeting work areas	ReturnLoss needs space SuggestedRemedy
SuggestedRemedy	as suggested
change to	Proposed Response Response Status W PROPOSED ACCEPT.
This includes the insertion loss of the balanced cabling pairs, including attachment cord, equipment cable and connector losses within each duplex channel.	C/ 113.7 SC 113.7.4.3.1 P 190 L 1 # 82
Proposed Response Response Status W	Moffitt, Bryan CommScope
PROPOSED REJECT. Although not targeted at work areas, text allows for work area and equipment cable considerations.	Comment Type E Comment Status D E2 Table 113–22 why in a table?
	SuggestedRemedy change to equation
	Proposed Response Response Status W PROPOSED REJECT. Requirement is clear

C/ 113.7 SC 113.7.4.3.1

Moffitt, Bryan	5 P 190 CommScope	L 1	# 83	C/ 113A SC 113A.4 P 224 L 54 # 97 Cibula, Peter Intel Corporation Intel Corporation
Comment Type E	Comment Status D			EZ Comment Type T Comment Status D C
fix :, SuggestedRemedy delete comma				The Task Force has been been careful to keep Annex 113A flexible and refer practitioners to the receiver specifications of the PHY under test for specific impairments, impairment source power levels, and relevant frequency ranges.
Proposed Response PROPOSED ACCEPT.	Response Status W			However, the description of the test setup, Page 224, Line 54 and Page 225, Line 1 states "the signal generator output frequency is swept incrementally from 1 MHz to 2000 MHz Since 113A.4 describes the setup for the referenced specifications, this statement should n generic and refer to the "calling" normative text for the test frequency range.
C/ 113A SC 113A.2	P 221	L 43	# 57	SuggestedRemedy
ZImmerman, George	CME Consulting	g, Inc.		Change the text in Annex 113A, Page 224, Line 54 and Page 225, Line 1 from
Comment Type E	Comment Status D			mp
"As shown in Figure 113. slightly (~0.1mm)" - this i	A–2 the inner conductor on the s not shown in the figure	bottom half of t	he clamp extends	"As with the calibration procedure, the signal generator output frequency is swept incremen from 1 MHz to 2000 MHz with a step size that should not exceed 1% of the preceding frequency value and with a dwell time at each step of at least 500 ms."
SuggestedRemedy				
Delete "As shown in Figu	re 113A-2", capitalize "the"			to
Proposed Response PROPOSED ACCEPT.	Response Status W			"As with the calibration procedure, the signal generator output frequency is swept incremen over the specified frequency range with a step size that should not exceed 1% of the preced frequency value and with a dwell time at each step of at least 500 ms."
				Proposed Response Response Status W
				PROPOSED ACCEPT.
				C/ 113A. SC 113A.3 P 222 L 20 # 84
				Moffitt, Bryan CommScope
				Comment Type E Comment Status D C
				This sentence gives me the impression that it implies the documented test is normative (not just doubly equivalent). It is also not clear what it is refering to; the entire procedure, the measurement or the validation.
				Note that other measurement methods are allowed providing they can demonstrate equivale equivalent results to the method described in this Annex.
				SuggestedRemedy
				delete or figure a good way to move the repaired statement into the overview 113A.1
				delete or figure a good way to move the repaired statement into the overview 113A.1Proposed ResponseResponse StatusW

Cl	113A.
SC	113A.3

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C/ 113A. SC 113A.3 Moffitt, Bryan	P 223 CommScope	L 30	# 86		C/ 113A. SC 113A.3 Moffitt, Bryan	P 224 CommScope	L 31	# 88
Comment Type E should be plural - two are	Comment Status D e shown			EZ	Comment Type E Note 1 should be with th	Comment Status D e first figure		Clamp
SuggestedRemedy change to Oscilloscopes	s, power meters or spectrum and	llyzers			SuggestedRemedy move it			
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 113A. SC 113A.3 Moffitt, Bryan	P 223 CommScope	L 7	# 85		C/ 113A. SC 113A.4 Moffitt, Bryan	P 224 CommScope	L 36	# 89
Comment Type E indentations not matchin SuggestedRemedy dent Proposed Response PROPOSED ACCEPT Format lines 6-12 as a s	Response Status W			EZ	instructing the tester no SuggestedRemedy	Comment Status D if a new cable is now inserted, to move the cable used for vali the original description in the va <i>Response Status</i> W	dation	
C/ 113A. SC 113A.3 Moffitt, Bryan	P 224 CommScope	L 10	# 87		C/ 113A. SC 113A.4 Moffitt, Bryan	P 225 CommScope	L 11	# 90
SuggestedRemedy	Comment Status D sentences above (and incorrect on the clamp and the balun shoul <i>Response Status</i> W	,		<i>Clamp</i> ith	an extra length from its o <i>SuggestedRemedy</i> as suggested	Comment Status D this image redrawn so it does r original validation position.	not appear that	Clamp the cable was pulled out
PROPOSED ACCEPT	,	the breakout fi	xture and the balun	n	Proposed Response PROPOSED REJECT.	Response Status W		

C/ 113A. SC 113A.4

CI 28	SC 28.3.1	P 27	L 7	# 99	CI 28	SC 2	8.3.2	P 27	L 26	# 100	
Law, David	ł	Hewlett Pack	ard Enterp		Law, David			Hewlett Packa	ard Enterp		
Comment	Туре Е	Comment Status D		BZ order	Comment T	Туре	Е	Comment Status D		BZ	Orde
remov subcla	e a dependence ause is also being There is also a typ	tructions should be based on i on which amendment is appro modified by IEEE P802.3bz, so in the editing instruction sind	ved first, it shoul but only if IEEE	d also note that the P802.3bz is approved	IEEE F <i>Suggested</i> Sugges publica	P802.3bz <i>Remedy</i> st that ar ation) Thi	since IE n editors i is change	be added to delete this chang EE P802.3bz contains the sat note be added that reads 'Edi e is also being made in IEEE	me change. tor's note (to be P802.3bz. If, one	removed prior to ce the approval orde	r of
Sugge	est that:				the var P802.3	ious ame 3bg this c	endments change sl	becomes settled, IEEE P80 nould be deleted.	2.3bz is to be ap	proved prior to IEEE	
list in a [2] Ad once t approv	subclause 28.3.1 d an editors note he approval orde ved prior to IEEE	nstructions to read 'Insert new (as modified by IEEE Std 802 be added that reads 'Editor's r r of the various amendments b P802.3bz the editing instruction	2.3bz-201X), in a note (to be remove comes settled,	lphabetical order:'. /ed prior to publication) If, IEEE P802.3bq is to be	Proposed F PROP It appe	Respons OSED A	e CCEPT BQ will pi	Response Status W IN PRINCIPLE. recede BZ.			
	nce to IEEE P80				CI 28	SC 2	8.5.3	P 27	L 40	# 5	
	Response	Response Status W			Anslow, Pe	te		Ciena			
OBE					Comment T	Туре	Е	Comment Status D			EZ
CI 28	SC 28.3.2	P 27	L 17	# 40	"See C	lause 1.4	4" is a ve	ry unhelpful cross-reference.			
	an, George	CME Consult		# 40	Suggested	Remedy					
Comment	, 0	Comment Status D	<i>,</i>	Editorial	Change	e "See C	lause 1.4	" to "See 1.4.278a" where 1.	4.278a is a cros	s-reference.	
	to update text for	link_fail_inhibit_timer to includ	le MultiGBASE-		Proposed F PROP	,	e .CCEPT.	Response Status W			
Suggested	Remedy				CI 28	SC 2	8.5.3	P 27	L 40	# 61	
Chang	ge "operating at 1	0 Gb/s" to "in the MultiGBASE	-T PHY set"		ZImmermar	n, Georg	е	CME Consult	ng, Inc.		
•	Response POSED ACCEPT	Response Status W			Comment 7 referen		E t clause	Comment Status D 1.4 is less than useful			EZ
					Suggested Replac	-		ause 1.4 with 1.4.278a			
					Proposed F PROP		e CCEPT.	Response Status W			
					•			Response Status W			

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

C/ 28 SC 28.5.3

CI 28	SC 28.5.4.8	P 28	L 10	# 101	C/ 30	SC	30.5.1.1.24	P3	2	L 18	# 103	
Law, David		Hewlett Packa	rd Enterp		Law, David			Hewl	ett Packa	ard Enterp		
Comment 7	Гуре Е	Comment Status D		BZ order	Comment T	Гуре	Е	Comment Status	D			ΕZ
		be added to delete this change EE P802.3bz contains the sar		bq is approved prior to				1.1.24 aLDFastRet ainCount to include		nt include' to re	ead ' Change text	of
Suggested	Remedy				Suggested	Remea	ly					
		note be added that reads 'Edito			See co	mment						
the vari	ous amendments	e is also being made in IEEE P becomes settled, IEEE P802 hould be deleted.			Proposed F PROP	,	ase ACCEPT.	Response Status	w			
Proposed F	Response	Response Status 🛛 🛛 🛛 🖉			C/ 30	SC	30.5.1.1.25	P3	2	L 34	# 104	
-	OSED ACCEPT y comment 68	IN PRINCIPLE.			Law, David		50.5.1.1.25	-	-	ard Enterp	# 104	
C/ 30	SC 30.3.2	P 29	L 37	# 62	Comment T		Е	Comment Status	-			ΕZ
Zimmermar		CME Consultir		π 02				1.1.25 aLPFastRet inCount to include		nt include' to re	ead ' Change the t	ext of
Comment 7 typo: "F	• •	Comment Status D device managed object class"		EZ	Suggested See co		-					
Suggested	Remedy	с <i>г</i>			Proposed F			Response Status	w			
•		managed object class"			PROP	OSED	ACCEPT.					
Proposed F PROP(Response OSED ACCEPT.	Response Status W			C/ 45 ZImmermar		45.2.1	P 3 CME	5 Consult	L 27	# 64	
C/ 30	SC 30.5.1.1.2	4 P 32	L 18	# 102	Comment 7		E	Comment Status				ΕZ
Law, David	JU JU.J. 1. 1.2	Hewlett Packa		# 102	Table 4	45-3 su		r 45.2.1.70 - should	-	ve cross referenc	es, not external as	EZ
Comment 7	Гуре Т	Comment Status D		EZ	indicate							
T Oper	ating Margin pac	RetrainCount' and 'aLPFastRet kage (conditional)' but instead	are part of the 'E		Suggested Replac			external references	s with ac	ctive cross refere	nces	
• •	,	IEEE Std 802.3-2015 Table 3	0–1e.		Proposed F	Respor	ise	Response Status	W			
Suggested					PROP	OSED	ACCEPT.					
' (as p	part of the Energ	uction ' (as part of the MultiG y-Efficient Ethernet package) was to move these attributes,	.' for subclause	30.5.1.1.24 and								
Proposed F	Response	Response Status W										
Change	OSED ACCEPT	on.										
The inte	ent was NOT to r	nove these, so no editing instru	uctions for table	30-1e due to this.								

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

C/ **45** SC **45.2.1** Page 24 of 30 11/4/2015 4:15:32 PM

C/ 45 SC 45.2.1 Anslow, Pete	<i>P</i> 35 Ciena	L 32	# 6	C/ 45 Anslow, P	SC 45.2.1.1 4	l c P 38 Ciena	L 6	# 10
Comment Type E	Comment Status D 4 through 45.2.1.77 are shown	in forest green, b	ut they should be cro	EZ Comment ss- The t	<i>Type</i> E tle of Table 45-17	Comment Status D	for "Extended Ab	EZ ility"
SuggestedRemedy Change 45.2.1.74 throu Proposed Response PROPOSED ACCEPT	ugh 45.2.1.77 to be cross-refer Response Status W	ences in black fo	nt.	Proposed	-	ity" to "extended ability" as pe <i>Response Status</i> W	r P802.3by D2.1	
C/ 45 SC 45.2.1.14 Anslow, Pete	4c P 38 Ciena	L1	# 8	<i>CI</i> 45 Anslow, P	SC 45.2.1.14 ete	l c.0a <i>P</i> 38 Ciena	L 19	# 11
P802.3bw, hence it sho Similar issue for Table	Comment Status D being inserted by P802.3by cor build be 45.2.1.14b not 45.2.1. 45-17c, which should be Table submitted against P802.3by D2	14c. 9 45-17b.		Suggeste Chan 45.2. Proposea	clause being inse dRemedy ge the inserted su	rted before 45.2.1.14c.1 shou bclause number (and the num .14c.a (actually 45.2.1.14b.a o <i>Response Status</i> W	nber in the editing	instruction) from
Change Table 45-17c t Proposed Response PROPOSED ACCEPT	Response Status W			Cl 45 Anslow, P	SC 45.2.1.6 ete	P 36 Ciena	L 16	# [7]
Cl 45 SC 45.2.1.14 Anslow, Pete Comment Type E References to amendm "IEEE Std 802.3xx-201 SuggestedRemedy	Ciena Comment Status D nents that are expected to comp	L 4	_	torial This i torial 6 orm This a The p	llocation of bits sl s not the allocatio www.ieee802.org	Comment Status D nown in Table 45-7 for the "25 n proposed in the meeting of e /3/by/public/adhoc/architecture ut 25GBASE-T between 40G n was "1 1 0 1 1 1" which is ac	editors on 13 Febre e/anslow_021815 BASE-T and 100	ruary, see: _25GE_adhoc.pdf#page= /GBASE-CR10
In editing instructions, o	to "IEEE Std 802.3by-201x" Response Status W			Suggeste Chan Proposea	dRemedy ge the allocation f Response	rom "1 0 0 1 1 1" to "1 1 0 1 1 Response Status W	1"	
	IN PRINCIPLE. 2.3 leadership on expected cor	npletion date of a	mendments	PRO	POSED ACCEPT			

C/ **45** SC **45.2.1.6** Page 25 of 30 11/4/2015 4:15:32 PM

Proposed Response Response Status W PROPOSED ACCEPT. Proposed Accept. CI 45 SC 45.2.3.13 P 46 L 19 # 66 Jummerman, George CME Consulting, Inc. Bring 45.2.3.6.1 in to the draft incorrectly has "(3.7.1.0)" (2 instances). Show a change from "(3. Comment Type E Comment Status D EZ Include 25GBASE-T in editing instruction EZ Proposed Response Status W PROPOSED ACCEPT. C/ 45 SC 45.2.3.11 P 47 L 30 # 105 For posed Response Status W PROPOSED ACCEPT. C// 45 SC 45.2.3.11 P 47 L 30 # 105 Comment Type T Comment Status D The editing instruction for Table 45-123 does not match the changes being made: there a more changes that described and the whole table is shown. This table is being modified by P802.3by which is likely to complete before P802.3bq. The change status that " This bit is a reflection of the PCS status variable in subclause 113.3.6.1 'State diagram conventions', nor in 113.3.6.2.2 'Variables'. The nearest mention loculd find was in subclause 113.3.7.1.)' Based on this suggest the reference should be to 113.3.7.1.'' Based on this suggest the reference should be to 113.3.7.1.'' Based on the suggest the reference should be to 113.3.7.1.'' Based on the suggest the reference should be to 113.3.7.1.'' Based on the suggest the refer					· · · · · · · · · · · · · · · · · · ·							
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Add in 45.2.1.65.1 and 45.2.1.65.2 to the draft to include cross references to Clause 113 Suggested/Remedy See comment Proposed Response Response Status C1 45 SC 45.2.3.13 P 46 L 19 # 66 This draft is expanding the PCS type selection field from 3.7.2.0 to 3.7.3.0, but there are places other than Table 45-123 where this change must also be reflected. C1 45 SC 45.2.3.13 P 46 L 19 # 66 This draft is expanding the PCS type selection field from 3.7.2.0 to 3.7.3.0, but there are places other than Table 45-123 where this change must also be reflected. Comment Type Comment Status D EZ Response Response Response Status W PROPOSED ACCEPT. C1 45 SC 45.2.3.1 P 47 L 30 # 105 See comment Free Comment Status D EZ PROPOSED ACCEPT. This change strest mat	ZImmerman, George	CME Consultin	ıg, Inc.		Anslow, Pete		Ciena					
SuggestedRemedy See comment SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. In 45.2.3.1.2 the draft incorrectly has '(3.7.1:0)'. (2 instances). Show a change from '(3.7.2:0)' to '(3.7.3:0)' Cl 45 SC 45.2.3.13 P 46 L 19 # 86 Include 25GBASE-T in editing instruction EZ Bring 45.2.3.6.1 in to the draft and show the title as changing to: "PCS type shall be selected using bits 3 See comment Proposed Response Response Status W PROPOSED ACCEPT. Ci 45 SC 45.2.3.6 P 44 L 3 # 13 See comment Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.3.13 P 47 L 30 # 105 This change states that" This bit is a reflection of the PCS_status variable of musical states incorrect. Comment Type E Comment Status D This change states that"	Comment Type E	Comment Status D		EZ	Comment Type T		Comment Status D		EZ			
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SuggestedRemedy Proposed Response Response Status W Suggest the text ' in 113.3.6.1 for 25GBASE-T and 40GBASE-T' be changed to read in PROPOSED ACCEPT. V	113.3.6.1 for 25GBASE subclause 113.3.6.1 'Sta mention I could find was whether the PCS is in a	-T and 40GBASE-T'. I can't ate diagram conventions', nor ir in subclause 113.3.6.3 'Messa fully operational state. (See 11	find mention of n 113.3.6.2.2 'Va ages' however th	PCS_status variable in ariables'. The nearest iis just states 'Indicates	Change the editir 201x) as follows:' Show "0 1 1 1" as Show the reserve	' s "= Selec d bits as t	t 25GBASE-R PCS type" being changed to "3.7.15:4'	"	by IEEE Std 802.3by-			
Suggest the text ' in 113.3.6.1 for 25GBASE-T and 40GBASE-T' be changed to read in PROPOSED ACCEPT. 113.3.7.1 for 25GBASE-T and 40GBASE-T' PROPOSED ACCEPT.					Proposed Response	I	Response Status W					
	Suggest the text ' in 1'		0GBASE-T' k	be changed to read in	PROPOSED AC	CEPT.						
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response PROPOSED ACCEPT.	Response Status W										

C/ **45** SC **45.2.3.6**

CI 45	SC 45.2.3.6.1	P 44	L 25	# 32		C/ 45	SC	45.2.3.7.5a	a P 44	L 47	# 15	
Anslow, Pete	9	Ciena				Anslow, P	ete		Ciena			
Comment Ty	ype T	Comment Status D			EZ	Comment	Туре	Е	Comment Status D			ΕZ
This dra	aft is allocating bit	3.8.6, but not reflecting this of	change in 45.2.3.	6.1.					BASE-T capable (3.8.9)" sho			
SuggestedR	Remedy								(3.8.10) and 45.2.3.7.4 1000 nt is changing this to be:	BASE-R capable	e (3.8.5)	
	e second sentend ed in bits 3.8.9 ar	ce of 45.2.3.6.1 as changing and 3.8.6:0."	to "The PCS type	e abilities of the PC	CS are	45.2.3	3.7.3 Re	ceive fault (
Proposed R PROPC	esponse DSED ACCEPT.	Response Status W				Conse	equently	, The subcl	ause for bit 3.8.9 should be	45.2.3.7.3aa and	for bit 3.8.6 should	d be
C/ 45	SC 45.2.3.7	P 44	L 28	# 14		45.2.3		ceive fault ((3.8.10) T capable (3.8.9)			
Anslow, Pete	е	Ciena							capable (3.8.7)			
Comment T	ype E	Comment Status D			ΕZ				capable (3.8.6) capable (3.8.5)			
"Ignore	when read" has b	odified by P802.3by which is I een changed to "Value alway				Suggeste	dRemed	ly	iction for the bit 3.8.9 subcla	uso to: "Insort 45	2 2 7 2oo oftor	
revision.									.2.3.7.3a (as inserted by IEE			
SuggestedR	-	Ohu aditarial taana ta ahamaa		- h - h				0	struction for the bit 3.8.6 sul		45.2.3.7.3b after	
amendn		.3by editorial team to show co	onsistent change	s between the two					by IEEE Std 802.3by-201x) as accordingly.	as follows:"		
Change "Ignore when read" to "Value always 0" in the reserved row.						Proposed Response Response Status W						
Proposed R PROPC	esponse DSED ACCEPT.	Response Status W					•	ACCEPT.				
						C/ 45	SC	45.2.3.9	P 45	L 20	# 16	
						Anslow, P	ete		Ciena			
						Comment	Туре	Е	Comment Status D			ΕZ
						The a The c	dded "1'	in the second the title of	gister 3.20 is not shown in T ond sentence of 45.2.3.9 sh Table 45-125 is not consist	ould be underline		ntrol

SuggestedRemedy

Show the change of title for register 3.20 in Table 45-119. Show the added "1" in the second sentence of 45.2.3.9 in underline font. Change to the title of Table 45-125 from "EEE control and capability register 1 bit definitions" to "EEE control and capability 1 register bit definitions"

Proposed Response Response Status W

PROPOSED ACCEPT.

<i>Cl</i> 45 <i>SC</i> 45.2.7.10. ZImmerman, George	4e P 52 CME Consultir	L 9 Ig, Inc.	# 53		Cl 45 Hajduczenia,	SC 45.2.7.140 Marek	Bright House	L 23 Network	# 21	
Comment Type E subclause 45.2.7.10.4e	Comment Status D		Ed	ditorial	Comment Ty	rpe E	Comment Status D s" should be "0 = Local devic	e requests"		EZ
SuggestedRemedy Change 45.2.7.10.4e to	45.2.7.10.4h				SuggestedRo Multiple	2	" which should be "0 =". Scru	b clause 45, plea	ase.	
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Re PROPO	esponse SED ACCEPT.	Response Status W			
Cl 45 SC 45.2.7.11. ZImmerman, George	2 P 54 CME Consultir	L 5 ng, Inc.	# 55		C/ 45 Hajduczenia,	SC 45.5 Marek	P 59 Bright House	L 12 Network	# 22	
Comment Type E "10GBASE-T status reg SuggestedRemedy Change "10GBASE-T" t Proposed Response	Comment Status D ister" should be "MultiGBASE o "MultiGBASE-T" Response Status W	T status registe	r"	EZ	SuggestedR	ually start at the emedy lace PICS at the	Comment Status D top of the page. e top of the page. Response Status W			EZ
PROPOSED ACCEPT.	·				PROPO	SED ACCEPT.				
Cl 45 SC 45.2.7.11. ZImmerman, George	7c P 54 CME Consultir	L 40 ng, Inc.	# 54		Cl 45 Zlmmerman,	SC 45.5.3.2 George	P 59 CME Consulti	L 27 ng, Inc.	# 67	ł
Comment Type E 45.2.7.11.7c should be 4 SuggestedRemedy see comment	Comment Status D 5.2.7.11.7g since it is after the	e bz bits	Ed	ditorial	Comment Ty add optic SuggestedRo See com	, on *25T to indica e <i>medy</i>	Comment Status D ate implementation of 25GBA	SE-T PMA, like 4	0GBASE-T	PICS
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Re		Response Status W			
<i>Cl</i> 45 SC 45.2.7.14 Hajduczenia, Marek	P 56 Bright House N	L 12 letwork	# 20		Cl 45 ZImmerman,	SC 45.5.3.3 George	P 59 CME Consulti	L 27 ng, Inc.	# 68	
Comment Type E Spurious "." in line 12 an after tables.	Comment Status D d line 41 and many more scat	ered around the	document, primarily	EZ /		,	Comment Status D 3 PMA/PMD management fu	nctions - add in *	40T and *25T as	PICS
SuggestedRemedy Remove "." in the empty	lines				SuggestedRo see com	-				
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Re		Response Status W			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 45
 Page 28 of 30

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 45.
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 SORT ORDER: Clause, Subclause, page, line
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C/ 45 SC 45.5.3.9 Hajduczenia, Marek	P 60 Bright House N	L 50 letwork	# 23	C/ 80 SC 80.1.4 ZImmerman, George	P 71 CME Consulti	L 51 ng, Inc.	# 42			
Comment Type E AM61 has reference brok	Comment Status D en into two lines without any r	need.	EZ	Comment Type E RS-FEC needs nonbreaking	<i>Comment Status</i> D g hyphen					
	use" column to accomodate r is in PICS in thid draft where Response Status W		en into two lines. There	SuggestedRemedy change hyphen to nonbreak Proposed Response F PROPOSED ACCEPT.	ing Response Status W					
Cl 55 SC 55.6 Hajduczenia, Marek	P 65 Bright House N	L 2	# 24	C/ 81 SC 81.1 ZImmerman, George	P 73 CME Consulti	L 19 ng, Inc.	# 43			
Comment Type E Odd "." character at the b SuggestedRemedy	Comment Status D		EZ	Clean up alignment in Figur SuggestedRemedy See comment	Comment Status D re 81-1 on 40GBASE-T sta Response Status W	ack				
C/ 78 SC 78.5 ZImmerman, George	P 68 CME Consultir	L 38	# 41	Cl 81 SC 81.1.7.3 ZImmerman, George	P 73 CME Consulti	L 51 ng, Inc.	# 69			
Comment Type E Need to include 25GBAS	Comment Status D	ig, nic.	Editorial	Comment Type T Comment Status D Architectul Logic for CARRIER_STATUS is convoluted, unclear and stated twice. CARRIER_ON and CARRIER_OFF states possibly overlap.						
SuggestedRemedy Change "10GBASE-T and (L38 & L40)	d 40GBASE-T PHY" to "PHY	in the MultiGB	ASE-T set" in 2 places	SuggestedRemedy Delete P73 L54 "CARRIER link_fault is Link Interruptior		ER_OFF" thro	ough P74 L3, "or if			
Proposed Response PROPOSED ACCEPT.	Response Status W				Response Status W					

C/ 81 SC 81.1.7.3

C/ FM	SC	P 1	1	L3	# 60	
ZImmerma	n, George	-	Consultin	g, Inc.		
Comment Update	<i>,</i> , –	Comment Status 25 Gb/s operation in int	-	text		ΕZ
Suggestea See co	<i>Remedy</i> omment					
Proposed PROP	Response OSED ACCEP	Response Status T.	w			
C/ FM	SC FM	P 1	1	L 28	# 2	
Anslow, Pe	ete	Ciena				
Comment	Туре Е	Comment Status	D			ΕZ
Suggestea	Remedy	802.3 is comprised of"			·	
Proposed	Response	Response Status	w			
Makes	suggested char	T IN PRINCIPLE. nge AND latest version of introduc	tion text i	s in use in the c	Iraft.	
C/ FM	SC FM	P 14	4	L 1	# 12	
Anslow, Pe	ete	Ciena				
<i>Comment</i> The ta		Comment Status has not been changed in	-	er for even pag	es of the TOC file	ΕZ
Suggestea Correc		e name in the header for	even pag	es of the TOC	file	
Proposed PROP	Response OSED ACCEP		w			

C/ FM SC FM