C/ 30 SC 30.5.1.1.4 Hajduczenia, Marek	P 23 Bright House N	L 46 letwork	# i-1	C/ 45 Marris, Ar	SC 45.2.1	P 24 Cadence De	L 10 Asian Syst	# i-3
	Comment Status A bically presented in "" and r offline," atus of OK maps to the en meration 'not available'.	not in ". For ex umeration 'ava	ilable'. All other states	Comment Table Suggeste Insert Response ACCE	Type TR 45-3 needs to i dRemedy row for Registe EPT IN PRINCIF esponse to com	Comment Status A nclude register 1.18 er 1.18 for "BASE-T1 PMA/PM Response Status C PLE.	1D extended abilit	
of link_status map to the enu <i>Response</i> ACCEPT.	meration "not available". Response Status C			C/ 96 Marris, Ar Comment		P 28 Cadence De Comment Status A	L 35 esign Syst	# [i-4
Stray underline under the v SuggestedRemedy Remove the said underline	U U		# [<u>-2</u>	Suggeste Delet Response ACCE Chan "* MII to	dRemedy e "* MII is option e EPT IN PRINCIF ge is optional for 1	ay MII is optional nal for 100 Mb/s systems." <i>Response Status</i> C PLE. 00 Mb/s systems" on of MII is optional"		
The "underline" the comme on the line below.	entor refers to is actually a	repeating sym	ool to the 66.666 MBd					

C/ 96 SC 96.1 Marris, Arthur	P 28 Cadence Des	L 40 ign Syst	# i-5	Cl 45 Anslow, Pet	SC 45.2.1 er	P 24 Ciena Corporat	L 3 tion	# <u>i</u> -7
,	Comment Status A 0BASE-T1 PHY type, op I Medium Attachment sub	erating at 100 M layer. Together,		Comment Ty For the of each FrameN	vpe E existing clause level down to laker template	Comment Status A es that are being modified by the the heading for the text being m	e amendmen	
The RS is included in the F SuggestedRemedy	Physical layer (but not the	PHY)>		SuggestedR Add the		45.2, 45.2.3, and 45.2.3.1		
Change: "This clause defines the 10 Sublayer and type Physica				Response ACCEP	Т.	Response Status C		
sublayers comprise the 10 To: "This clause defines the Pe	BASE-T1 Physical layer	"		C/ 45 Anslow, Pete		P 24 Ciena Corporat	L 5 tion	# [<mark>i-8</mark>
ACCEPT.	esponse Status C			the char	, 1.18 has bee	Comment Status A in allocated in 45.2.1.14b. This in ase standard where this registe served"		
The abbreviations "RBW" a abbreviations list). In this of abbreviation where it is use SuggestedRemedy Remove the abbreviations In 96.5.4.4, change: " should be RBW=10 kH. " should be resolution ba	ase, we do not include the ed instead. "RBW" and "VBW" from 7 z, VBW=30 kHz," to:	nce in the draft (e abbreviation ir 1.5.	1.5 but expand the	in IEEE Make th "Replac (unchan Add a n make 45 1.17 1.18	change to Tat Std 802.3bj-2 e editing instru- e the reserved ged rows not s ew Table 45-3 5.2.1.14b a cro bugh 1.29 Re	uction: I row for 1.17 through 1.29 in Ta shown):" with three rows plus headings oss-reference): Reserved BASE-T1 PMA/PMD extended	able 45-3 with (no underline	n the following three rows

C/ 45 SC 45.2.1.131	P 26	L 30	# i-9	C/ 45	SC 45.2.1.13	1.2 P 26	6 L 52	# i-11
Inslow, Peter	Ciena Corpor	ation		Anslow,	Peter	Ciena	Corporation	
Comment Type TR C	omment Status A			Commer	t Type T	Comment Status	Α	
In Table 45-98a, the Descrip the R/W column has "R/W". Note - There are no table er column contains "R/W"	If writes are ignored, the	en the bit is not F	Ŕ/W.	oper	ation if MASTER-S		enable bit 1.2100.15 i	ct MASTER or SLAVE s set to one."
				Suggest	edRemedy			
SuggestedRemedy			0	Dele	te "if MASTER-SL	AVE manual config er	hable bit 1.2100.15 is	set to one".
Either remove ", writes ignor	•	or change to "R	.U."	Respons	e	Response Status	С	
Response Re ACCEPT IN PRINCIPLE.	sponse Status C			ACC	EPT IN PRINCIPL	.Е.		
				This	register is now rea	ady-only.		
Bit 1.2100.15 should be cha ", writes ignored" should be				See	response to comm	nent #i-9.		
C/ 45 SC 45.2.1.131.1	P 26	L 47	# i-10	The	response to comm	nent i-9 is copied below	w for the convenience	of the reader.
Anslow, Peter	Ciena Corpor	ation		ACC	EPT IN PRINCIPL	.E.		
	omment Status A				0400 45 should b	a share a dita "DO"		
The first sentence of 45.2.1. or SLAVE configuration is so The second sentence starts always a 1.	et manually."				rites ignored" shou	e changed to "RO". Ild be deleted.		
SuggestedRemedy								
Delete the start of the sente	nce "In that case,"							
Response Re	sponse Status C							
ACCEPT IN PRINCIPLE.								
Remove the second senten	ce of 45 2 1 131 1							
Remove the second senten	0.01-0.2.1.101.1.							

CI 22	SC 22.1	P 22	L 1	# i-12
Grow, Robe	ert	Self Employed		

Comment Type GR Comment Status A

*** Comment submitted with the file 85554200003-Clause 22 changes.docx attached ***

The project needs changes to Clause 22 to be compatible with the base document. This is highlighted on P802.3/D3.0, page 45, line 40.

The statement that the MII is for PHYs of 10 Mb/s and above is clearly wrong. The MII is only specified for 10 Mb/s and 100 Mb/s, and the MII management interface is also only applicable to some of the 1000 Mb/s PHYs that have been specified. P802.3bw does not propose use of either the MII management interface nor the MII register set.

Examples of problematic text (P802.3/D3.0):

22.1.1, c) -- P802.3bw does not use these signals, only the MII data paths, so the management interface needs to be optional to claim use of the MII.

22.1.2 -- This subclause describes exposed interfaces, not a logical interface, where components are separable (e.g., use data paths but not management interface, electrical specifications do not apply to a logical interface.)

22.1.5 -- "to determine PHY capabilities for any supported speed of operation". This is not true for many Ethernet PHYs. Since P802.3bw is 100 Mb/s PHYs and it does not use MII capabilities for management, it has the greatest burden to make sure Clause 22 is corrected.

22.2.4, 3rd para. -- "All PHYs that provide an MII shall incorporate the basic register set. All PHYs that provide a GMII shall incorporate an extended basic register set consisting of the Control register (Register 0), Status register (Register 1), and Extended Status register (Register 15). The status and control functions defined here are considered basic and fundamental to 100 Mb/s and 1000 Mb/s PHYs. Registers 2 through 14 are part of the extended register set." P802.3bw is, I believe, the first 100 Mb/s PHY for which this is not true, so it has to be fixed.

22.8.3.5, MF45 and MF 59 -- "all PHYs". Not true of a P802.3bw PHY.

SuggestedRemedy

The attached file proposes changes to Clauses 22 to fix the text. A more comprehensive comment has been submitted on P802.3 (to also fix for Gigabit). If accepted, the PICS for Clause 22 will also need to be revised to provide optionality similar to that in Clause 35. The P802.3bw TF should take the lead in correction of the PICS whether the changes are done in P802 or P802.3bw.

Response

Response Status U

ACCEPT IN PRINCIPLE.

The commenter points out a valid inconsistency between the P802.3bw draft and IEEE Std 802.3-2012. As the commenter pointed out, this problem exists for other active 802.3 amendment projects (P802.3bp & P802.3bv). The P802.3bw TF will work with P802.3 (802.3bx) to assure appropriate changes are made in the revision of Std 802.3.

This topic is being considered in P802.3bx under comment #i-89. Comment #i-89 was accepted as AIP in Maintenance comment resolution.

C/ 45 SC 45.2.1.132	P 27	L 23	# i-13
Scantamburlo, Nicola	Canova Tec	h	
Comment Type G Typo in register number	Comment Status A		EZ
SuggestedRemedy Written Register 1.2101	.12:0, should be 1.2102.12	:0	
Response ACCEPT.	Response Status C		
C/ 00 SC 0	Р	L	# i-14
Carlson, Steven	Marvell Sem	iconducto	
single balanced twisted	tion in automotive environr pair. ity to survive automotive fa		
	temperature or ISO16750 referenced to ISO16750.	in the draft. There	e is some material on
SuggestedRemedy			
	0 Environmental Specificates, and will align 100BASE		
Response ACCEPT IN PRINCIPLE	Response Status C		
P802.3bp 1000BASE-T	1 has suggested the text fro	om Clause 97.10	should be used in

P802.3bp 1000BASE-T1 has suggested the text from Clause 97.10 should be used in Clause 96. The text from 97.10 will be copied into a new subclause in 96 and "1000BASE-T1" will be changed to "100BASE-T1".

Additionally add necessary normative references that are referenced in the added text.

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-14

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Support fast-startup operation using predetermined configurations which enables the time from power_on2 = FALSE to a state capable of transmitting and receiving valid data to be less than 100 ms. in text. Does this document appear in previ- cite in text. If it's not needed for the implem normative reference clause. Support optional operation with run-time configuration, that specifies a maximum allowable time from power_on2 = FALSE to a state capable of transmitting and receiving valid data. Response Response Status SuggestedRemedy Create a new subclause (not sure where) "Start-up Time", and provide the necessary information. Start-up Time", and provide the necessary information. See response to comment #-14. Response Response Status C ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link_status=OK shall be less than 100 ms." PRO2.3bp 1000BASE-T1 has suggested th Clause 96. The text from 97.10 will be copie T1" will be changed to "100BASE-T1". PICS needs to be updated accordingly. C Se C 96.3.2.1.1 PR Zhang, Jin Cl 96 SC 96.3.2.1.1 PR Zhang, Jin PR Zhang, Jin The definition of tx_error_milis counter-inti- error. It also contradicts the definition of TX SuggestedRemedy SuggestedRemedy Talse: no error. True: error transmission.	A native reference clause, however it is not cit us amendments or in the base? If not please ntation of the standard, it shouldn't be in the
The draft is not aligned with the project objectives. Support fast-startup operation using predetermined configurations which enables the time from power_on2 = FALSE to a state capable of transmitting and receiving valid data to be less than 100 ms. Support optional operation with run-time configuration, that specifies a maximum allowable time from power_on2 = FALSE to a state capable of transmitting and receiving valid data. There is no mention of the 100 msec. start-up requirement in the draft and no value is given for the "maximum allowable time." If a maximum allowable time is an objective, then it must be stated, incorporated into the PICs, and a test method developed. SuggestedRemedy Create a new subclause (not sure where) "Start-up Time", and provide the necessary information. Response Response Status C ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: 'In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link, status=OK shall be less than 100 ms." PICS needs to be updated accordingly. PICS needs to be updated accordingly. PICS needs to be updated accordingly. I all cases of the definition of tx_error_mil is counter-inti error. It also contradicts the definition of TX SuggestedRemedy Case response Type T Comment Status The definition of tx_error_mil is counter-inti error. True: error transmission. Response Response Status C SuggestedRemedy False: no error. True: error transmission. Response Response Status the definition of TX SuggestedRemedy False: no error. True: error transmission.	native reference clause, however it is not cit us amendments or in the base? If not please
Support optional operation with run-time configuration, that specifies a maximum allowable time from power_on2 = FALSE to a state capable of transmitting and receiving valid data. Response Response Status There is no mention of the 100 msec. start-up requirement in the draft and no value is given for the "maximum allowable time." If a maximum allowable time is an objective, then it must be stated, incorporated into the PICs, and a test method developed. Response Response to comment #i-14. Suggested/Remedy C Ccenter a new subclause (not sure where) "Start-up Time", and provide the necessary information. The response to comment #i-14. The response to comment i-14 is copied be ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link_status=OK shall be less than 100 ms." PROC 305 1000BASE-T1 has suggested th Clause 96. The text from 97.10 will be copi T1" will be changed to "100BASE-T1". PICS needs to be updated accordingly. C Comment Type Comment Status The definition of Tx_eror_mill is counter-intu- terror. It also contradicts the definition of TX Suggested/Remedy Case in o error. True: error transmission. Response Response	
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The rest of the "maximum allowable time." If a maximum allowable time is an objective, then it must be stated, incorporated into the PICs, and a test method developed. Change "CISPR 25" in 96.5.1 to "IEC CISP 25" in 96	С
it must be stated, incorporated into the PICs, and a test method developed. Change "CISPR 25" in 96.5.1 to "IEC CISP SuggestedRemedy Create a new subclause (not sure where) "Start-up Time", and provide the necessary information. See response to comment #i-14. Response Response Status C ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: The response to comment i-14 is copied be No. No. P802.3bp 1000BASE-T1 has suggested th Clause 96. The text from 97.10 will be copi T1" will be changed to "100BASE-T1". Additionally add necessary normative refer C/ PICS needs to be updated accordingly. P Zhang, Jin Man Comment Type T Comment Type T Comment Type T SuggestedRemedy False: no error. True: error transmission. Response Response Status	
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information. Response Response Status C The response to comment i-14 is copied be ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link_status=OK shall be less than 100 ms." P802.3bp 1000BASE-T1 has suggested the Clause 96. The text from 97.10 will be copied to "100BASE-T1". PICS needs to be updated accordingly. C/ 96 SC 96.3.2.1.1 P: Zhang, Jin Mary Comment Type T Comment Status The definition of tx_error_mii is counter-intu error. It also contradicts the definition of TX Suggested/Remedy False: no error. True: error transmission.	
ACCEPT IN PRINCIPLE. Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link_status=OK shall be less than 100 ms." PICS needs to be updated accordingly. PICS needs to be updated accordingly. PICS needs to be updated accordingly. Additionally add necessary normative refer C/ 96 SC 96.3.2.1.1 P: Zhang, Jin Mary Comment Type T Comment Status The definition of tx_error_mii is counter-intu error. It also contradicts the definition of TX SuggestedRemedy False: no error. True: error transmission. Response Response Status	ow for the convenience of the reader.
Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to link_status=OK shall be less than 100 ms." P802.3bp 1000BASE-T1 has suggested the Clause 96. The text from 97.10 will be copin T1" will be changed to "100BASE-T1". PICS needs to be updated accordingly. Additionally add necessary normative reference of SC 96.3.2.1.1 Provide SC 96.3.2.1.1 Prov	
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C/ 96 SC 96.3.2.1.1 P Zhang, Jin Mary Comment Type T Comment Status The definition of tx_error_mii is counter-intu error. It also contradicts the definition of TX SuggestedRemedy False: no error. True: error transmission. Response Response Status	nces that are referenced in the added text.
Comment Type T Comment Status The definition of tx_error_mii is counter-intu error. It also contradicts the definition of TX SuggestedRemedy False: no error. True: error transmission. Response Response Status	9 L 47 # <u>i-17</u>
The definition of tx_error_mii is counter-intu error. It also contradicts the definition of TX SuggestedRemedy False: no error. True: error transmission. Response Response Status	Il Semiconducto
error. It also contradicts the definition of TX SuggestedRemedy False: no error. True: error transmission. Response Response Status	A
False: no error. True: error transmission. Response Response	tive. False - errored transmission, True- No ER, where 1 means error, 0 means no error
Response Response Status	
	c
ACCEPT IN PRINCIPLE.	•
See response to comment #i-18.	
The response to comment i-18 is copied be	
ACCEPT.	ow for the convenience of the reader.
On Page 39, line 48, replace the paragraph	ow for the convenience of the reader.

Comment ID i-17

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96 SC 96.3.2.11 P 39 L 48 # i-18	C/ 96 SC 96.1.2 P 31 L 1 # i-20
I, Peter Marvell Semiconducto	Law, David Hewlett-Packard Ltd
mment Type GR Comment Status A	Comment Type TR Comment Status A
FALSE and TRUE descriptions are inverted.	The definition of the notation, service and timer specification should be placed under their
ggestedRemedy	own subclause heading. In addition there is no statement that the state diagrams takes precedence over text.
The tx_error_mii variable is generated in the PCS data transmission enabling state diagram as specified in Figure 96-5. When this variable is set to FALSE it	SuggestedRemedy
indicates a non-errored transmission, when set to TRUE it indicates an errored transmission.	[1] Add a new subclause 96.1.2 as follows:
sponse Response Status C	96.1.2 'Conventions in this clause'.
ACCEPT.	The body of this clause contains state diagrams, including definitions of variables,
On Page 39, line 48, replace the paragraph with commenter's whole paragraph suggestion.	constants, and functions. Should there be a discrepancy between a state diagram and descriptive text, the state diagram prevails.
96 SC 96.3.3.1 P 53 L 1 # [i-19] I, Peter Marvell Semiconducto	[2] Renumber and rename existing subclause 96.1.2 'Notation' to be 96.1.2.1 'State Diagram Notation'.
mment Type G Comment Status A E2 The Figure 96-10a is not aligned well, some of the first line letters are not fully shown E2	[3] Renumber, reorder and rename existing subclause 96.1.3 'Service specification' to be '96.1.2.3 'Service specification'.
ggestedRemedy Re-align the figure	[4] Renumber, reorder and rename existing subclause 96.1.4 'Timer specification' to be '96.1.2.2 'State Diagram Timer specification'.
ACCEPT.	Response Response Status C ACCEPT.
Editor to increase the vertical size to anchor frame containing the figure.	C/ 96 SC 96.3.3.1.2 P 53 L 36 # i-21
	Law, David Hewlett-Packard Ltd
	Comment Type E Comment Status A
	The text states that 'The symbol conversion is as specified in 96.3.3.1.'. Is this the correct cross-reference, subclause 96.3.3.1 is the 'PCS Receive overview' whereas subclause 96.3.3.2 is the 'PCS Receive symbol decoding'.
	SuggestedRemedy
	Change the cross-reference from 96.3.3.1 to 96.3.3.2. Alternatively delete this sentence as it doesn't seem particularly relevant to the definition of this timer.
	Response Response Status C
	ACCEPT IN PRINCIPLE.

C/ 96 SC 96.3.3.	.1 P 52	L 7	# i-22		C/ 96	SC 96.3.3.1		P 50	L 3	# <u>i-25</u>
aw, David	Hewlett-Pack	ard Ltd			Law, David			Hewlett-Pack	kard Ltd	
Comment Type T	Comment Status A			ΕZ	Comment Ty	pe TR	Comment	Status A		
described in 40.4.5.2 the value zero will ha rcv_max_timer_done		finition for what a liagram only eve	assigning a timer w r tests the value of		is to con The varia JAB state	rol the Receir able rcv_jab_e e, and false ir	ve state diagrar detected is gen	m, forcing it ba erated by the	ack to the IDLE s	a state and its only us state is 'JBstate = JA um, it is TRUE in the JBstate = JAB',
rcv_max_timer', so a rcv_max_timer_done	x timer is started in the 'MONJA as defined by 40.4.5.2 through i e is set to FALSE at that point. timer <= 0' in the state 'JABIDL	ts reference to 1 Based on this I c	4.2.3.2, the variable		Receive	state diagram			e JAB state diag generated in text	ram to control the
					SuggestedRe	,				
SuggestedRemedy Delete the action 'rcv	v_max_timer <= 0' in the state '	JABIDLE'.							state = JAB' on t /_jab_detected =	he open arrow to the = TRUE'.
Response	Response Status C				Response		Response S	Status C		
ACCEPT.					ACCEPT		-			
C/ 96 SC 96.3.3.	.1.1 P 52	L 36	# i-23		C/ 96	SC 96.3.3.1		P 50	L 21	# i-26
Law, David	Hewlett-Pack	ard Ltd			Law, David			Hewlett-Pack	kard Ltd	
	Hewlett-Pack Comment Status A	ard Ltd			Law, David <i>Comment Ty</i>	pe TR	Comment		kard Ltd	
Comment Type ER Please format the va variables' here and e SuggestedRemedy			1 'State diagram		Comment Ty The varia diagram' correctly	able 'mii_fc_e , set FALSE e	rr' is set TRUE elsewhere, but i oss the MII thro	Status A in the 'BAD SS is never used.	SD' state of the ' Further, a false	PCS Receive state carrier error is alread RUE' and 'pcs_rx_dv
Comment Type ER Please format the va variables' here and e	Comment Status A ariable definitions as found in su		1 'State diagram		Comment Ty The varia diagram' correctly	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD S	rr' is set TRUE elsewhere, but i oss the MII thro	Status A in the 'BAD SS is never used.	SD' state of the ' Further, a false	carrier error is alread
Comment Type ER Please format the va variables' here and e SuggestedRemedy See comment.	Comment Status A ariable definitions as found in su		1 'State diagram		Comment Ty The varia diagram' correctly FALSE' i SuggestedRe Delete th	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD St emedy	rr' is set TRUE elsewhere, but i oss the MII thro SD' state. variable and re	Status A in the 'BAD SS is never used. bugh the use o	SD' state of the ' Further, a false f 'pcs_rx_er = Ti	carrier error is alread
Comment Type ER Please format the va variables' here and e SuggestedRemedy See comment. Response ACCEPT.	Comment Status A ariable definitions as found in su elsewhere in the draft. Response Status C	ubclause 40.4.5.	-		Comment Ty The varia diagram' correctly FALSE' i SuggestedRe Delete th	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD S emedy ne 'mii_fc_err'	rr' is set TRUE elsewhere, but i oss the MII thro SD' state. variable and re	Status A in the 'BAD SS is never used. bugh the use o	SD' state of the ' Further, a false f 'pcs_rx_er = Ti	carrier error is alread RUE' and 'pcs_rx_dv
Please format the va variables' here and e SuggestedRemedy See comment. Response	Comment Status A ariable definitions as found in su elsewhere in the draft. Response Status C	ubclause 40.4.5. <i>L</i> 20	1 'State diagram # <u>i-24</u>		Comment Ty The varia diagram' correctly FALSE' i SuggestedRe Delete th 'PCS Re Response	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD S emedy ne 'mii_fc_err'	rr' is set TRUE elsewhere, but i oss the MII thro SD' state. variable and re agram'. <i>Response</i> S	Status A in the 'BAD SS is never used. bugh the use o	SD' state of the ' Further, a false f 'pcs_rx_er = Ti	carrier error is alread RUE' and 'pcs_rx_dv
Comment Type ER Please format the va variables' here and e SuggestedRemedy See comment. Response ACCEPT. Cl 96 SC 96.3.3. Law, David Comment Type E	Comment Status A ariable definitions as found in su elsewhere in the draft. Response Status C .1 P 52	<i>L</i> 20 <i>L</i> 20	# [<u>i-24</u>	EZ	Comment Ty The varia diagram' correctly FALSE' i SuggestedRe Delete th 'PCS Re Response ACCEPT Add a ne "If the BA	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD S emedy e 'mii_fc_err' ceive state di IN PRINCIP w paragraph AD SSD state	rr' is set TRUE elsewhere, but i oss the MII thro SD' state. variable and re agram'. <i>Response S</i> LE. at the end of 90	Status A in the 'BAD SS is never used. bugh the use of emove from the Status C 6.3.3.5 read as gure 96-10a PC	SD' state of the ' Further, a false f 'pcs_rx_er = Tl e 'BAD SSD' and s follows, CS Receive state	carrier error is alread RUE' and 'pcs_rx_dv
Comment Type ER Please format the va variables' here and e SuggestedRemedy See comment. Response ACCEPT. Cl 96 SC 96.3.3. Law, David Comment Type E	Comment Status A ariable definitions as found in su elsewhere in the draft. Response Status C .1 P 52 Hewlett-Pack Comment Status A	<i>L</i> 20 <i>L</i> 20	# [<u>i-24</u>	EZ	Comment Ty The varia diagram' correctly FALSE' i SuggestedRe Delete th 'PCS Re Response ACCEPT Add a ne "If the BA	able 'mii_fc_e , set FALSE e signalled acr n the 'BAD S emedy e 'mii_fc_err' ceive state di IN PRINCIP w paragraph AD SSD state	rr' is set TRUE elsewhere, but i oss the MII thro SD' state. variable and re agram'. <i>Response S</i> LE. at the end of 90 occurred in Fig	Status A in the 'BAD SS is never used. bugh the use of emove from the Status C 6.3.3.5 read as gure 96-10a PC	SD' state of the ' Further, a false f 'pcs_rx_er = Tl e 'BAD SSD' and s follows, CS Receive state	carrier error is alread RUE' and 'pcs_rx_dv I 'IDLE' states of the

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/ 96 SC 96.3.3. Law. David	.1 P 50 Hewlett-Pack	L 39 ard Ltd	# i-27		Cl 30 SC 30.3.2.1 Law. David		P 23 Hewlett-Pack	L 12 kard Ltd	# <mark>i-30</mark>
Comment Type E Typo	Comment Status A			EZ	Comment Type ER Please provide clear i aPhyType and aPhyT		spect to wher	e to place the ne	w entry in the
SuggestedRemedy	- dimensional in state (OOD)				SuggestedRemedy				
-	ad 'receiving' in state 'SSD'.					struction for aPh	yType and aF	PhyTypeList to re	ad 'Insert the following
Response	Response Status C				new entry in APPROF	PRIATE SYNTAX	K after the ent	try for 100BASE-	T2:'.
ACCEPT.					Response	Response S	tatus C		
C/00 SC 0	P 2	L 1	# i-28		ACCEPT.				
.aw, David	Hewlett-Pack	ard Ltd			C/ 30 SC 30.5.1.1	2	P 23	L 35	# i <u>-31</u>
Comment Type E	Comment Status A			ΕZ	Law, David		Hewlett-Pack		
	ication provides fully functional	and electrical spe	ecifications for the t	type	The instructions state				
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100BASE-T1 PHY. T 100BASE-T1. SuggestedRemedy This amendment to I Layer (PHY) specific Mb/s operation over This specification pro 100BASE-T1 PHY. T 100BASE-T1. Response ACCEPT.	This specification also specifies IEEE 802.3 Standard for Etherr cations and management param single twisted pair balanced ca ovides fully functional and elect This specification also specifies <i>Response Status</i> C <i>P</i> 18	the baseband m net defines the 10 neters for point-to bling. rical specification the baseband m	edium used with 00BASE-T1 Physica 0-point full duplex 10	al	however that could m don't think is correct. T2FD entry. SuggestedRemedy Change the editing in APPROPRIATE SYN Response ACCEPT. C/ 96 SC 96.3.3.1 Law, David Comment Type T	ean between the Instead the 100E struction for aMA TAX after the en <i>Response S</i> .1 <i>Comment S</i> efinitions for RXD	AUType to rea AUType to rea try for 100BAS tatus C P 53 Hewlett-Pack Status A D<3:0>, RX_D	DBASE-T2 and 10 y should be inse ad 'Insert the follo SE-T2FD:'. <i>L</i> 7 kard Ltd DV and RX_ER s	00BASE-T2HD which I rted after the 100BASE owing new entry in # <u>i-32</u>
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100BASE-T1 PHY. T 100BASE-T1. SuggestedRemedy This amendment to I Layer (PHY) specific Mb/s operation over This specification pro 100BASE-T1 PHY. T 100BASE-T1. Response ACCEPT. C/ 01 SC 1.3 .aw, David Comment Type E Typo, missing space SuggestedRemedy	This specification also specifies IEEE 802.3 Standard for Ethern ations and management param single twisted pair balanced ca ovides fully functional and elect This specification also specifies <i>Response Status</i> C <i>P</i> 18 Hewlett-Pack <i>Comment Status</i> A	the baseband m net defines the 10 neters for point-to bling. rical specification the baseband m	DOBASE-T1 Physica DoBASE-T1 Physica Dopoint full duplex 10 Ins for the type Inedium used with	al 00	however that could m don't think is correct. T2FD entry. SuggestedRemedy Change the editing in APPROPRIATE SYN Response ACCEPT. C/ 96 SC 96.3.3.1 Law, David Comment Type T Delete the variable de not used in the in Figu SuggestedRemedy	ean between the Instead the 100E struction for aMA TAX after the en <i>Response S</i> .1 <i>Comment S</i> efinitions for RXD	AUType to rea AUType to rea try for 100BAS tatus C P 53 Hewlett-Pack Status A D<3:0>, RX_D re 96-10b or F	DBASE-T2 and 10 y should be inse ad 'Insert the follo SE-T2FD:'. <i>L</i> 7 kard Ltd DV and RX_ER s	00BASE-T2HD which I rted after the 100BASE owing new entry in

C/ 96	SC 96.3.3.1.4	P 53	L 43	# i-33	CI 96	SC 96.6	P 71	L 26	# i-34
Law, David	I	Hewlett-Packa	ard Ltd		Thompson	n, Geoffrey	INDEPENDEN	Т	

Comment Type TR Comment Status A

Subclause 96.3.3.1.4 'Messages' defines 'PUDI' however this is never used. Further there is no clear description that I can find of now the 'rx_symb_vector' ternary symbols supplied by the PMA_UNITDATA.indication primitive from the PMA are mapped to rx_symb_pair other than a mention on de-interleaving rx_symb_vectors in the check_idle function defined in subclause 96.3.3.1.2 'Functions' and a statement that 'received symbols are converted to a 2-D ternary pair (RAn, RBn) first' in subclause 96.3.3.2 'PCS Receive symbol decoding'.

SuggestedRemedy

[1] Update the description in subclause 96.3.3.2 'PCS Receive symbol decoding' to use the variables rx_symb_vector and rx_symb_pair.

[2] Remove subclause 96.3.3.1.4 'Messages' and it definition of 'PUDI' as it is not used by the state diagrams. Alternatively, provide a state diagram that uses PUDI and describes how the rx_symb_vector received in the message PUDI is mapped to rx_symb_pair which is used by the DECODE function of the state diagram.

[3] Suggest a diagram similar to 96-8 'PCS transmit symbol mapping' be provided for the PCS receive symbol mapping.

Response

Response Status C

ACCEPT IN PRINCIPLE.

Remedy#1: In 96.3.3.2, on page 53 line 48, change "The receiver implementation deinterleaves the sequences accordingly."

to

"The receiver de-interleaves the sequences of rx_symb_vector to rx_symb_pair accordingly."

In 96.3.3.2, on page 53 line 51, change

"The received symbols are converted to a 2-D ternary pair (RAn, RBn) first." to

"The received symbols, rx_symb_vector, are de-interleaved to generate rx_symb_pair (RAn, RBn)."

Remedy#2: Accept to remove subclause 96.3.3.1.4 'Messages' and its definition of 'PUDI' . Remedy#3: The interleaving process is explained in the transmit section, see Figure 96-8. The de-interleaving of the 2-D ternary pair (RAn, RBn) or (RBn, RAn) is a function of the receiver, and it is left to implementors.

Additionally, a diagram as described by commenters suggested remedy [3] will be added.

Thompson, Geoffrey		INDEPENDENT	
Comment Type	т	Comment Status A	
In 000.0 mon		ant is antional (and quatation from 20.1. Management Quantion)	

In 802.3, management is optional (see quotation from 30.1, Management Overview, below), and the way of doing management registers and the management interface are also optional (see quotations from 80.2.7 Management interface (MDIO/MDC) and Clause 55, 10GBASE-T, below). This is desirable: some small or highly integrated products won't have an exposed MDIO interface, and some (e.g. SFP+ modules) use a different memory map and interface that provides an equivalent function to Clause 45, and can be converted by another part of the system.

This sentence "100BASE-T1 shall use the management interface as specified in Clause 45 and the PHY-Initialization which is described in the following section." joins two separate requirements with one "shall" (also it lacks a PICS). The first one, "shall use the management interface as specified in Clause 45" was a response to D1.2 comment 91 which asked "is the management interface normative or optional?" The text needs to be changed to show that Clause 45 is optional. Also, the "shall be configured" in 96.6.1 won't work, because shalls in this clause apply to just the PHY, and something else would do the configuring.

Editorials: it's the following two sections, and they should be called subclause or explicitly identified. PHY-initialization, MASTER-SLAVE configuration and MASTER-SLAVE assignment are the same thing, so must be identified by the same name. Rogue capital in "PHY-Initialization", line 28.

From 30.1 Overview

In CSMA/CD no peer management facilities are necessary for initiating or terminating normal protocol operations or for handling abnormal protocol conditions. Since these activities are subsumed by the normal operation of the protocol, they are not considered to be a function of Layer Management and are, therefore, not discussed in this clause. Implementation of part or all of Layer Management is not a requirement for conformance to any other clause of this standard.

80.2.7 Management interface (MDIO/MDC)

The optional MDIO/MDC management interface (Clause 45) provides an interconnection between MDIO Manageable Devices (MMDs) and Station Management (STA) entities.

55.3.7 PCS management

The following objects apply to PCS management. If an MDIO Interface is provided (see Clause 45), they are accessed via that interface. If not, it is recommended that an equivalent access be provided.

55.5.2 Test modes

The test modes described below shall be provided to allow for testing of the transmitter waveform, transmitter distortion, transmitted jitter, transmitter droop and BER testing. For a PHY with an MDIO management interface, these modes shall be enabled by setting bits...

55.6 Management interfaces

10GBASE-T makes extensive use of the management functions that may be provided by

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-34

Page 9 of 22 6/26/2015 3:10:33 PM

the MDIO (Clause 45)						
the MDIO (Clause 45)	C/ 45 SC 45.2.1.131 P 26 L 30 # i-36					
SuggestedRemedy	Mcclellan, Brett Marvell Semiconducto					
Change 96.6, 96.6.1 and 96.6.2 to: 96.6 MASTER-SLAVE assignment 100BASE-T1 uses MASTER-SLAVE assignment. A method for configuring a PHY as MASTER or SLAVE shall be provided. The optional MDIO/MDC management interface (Clause 45) may be used; if not, it is recommended that an equivalent access be provided. MASTER-SLAVE assignment for each link configuration is necessary for establishing the timing control of each PHY. In 100BASE-T1, one PHY is configured as MASTER and one	Comment Type TR Comment Status A MASTER-SLAVE manual config enable description says "Value always 1, writes ignored" but the last column indicates R/W. The description should not say that writes are ignored which contradicts the objective of not precluding auto-negotiation. SuggestedRemedy					
PHY is configured as SLAVE to operate. In case both PHYs are configured to be MASTER or SLAVE, operation is undefined. [Then, text as in present 96.6.2 PHY-initialization]	change description to "Set to 1 for manual configuration" on line 46 change "Bit 1.2100.15 returns a one to indicate that MASTER or SLAVE configuration is set manually." to "Bit 1.2100.15 is set to one for manual MASTER or SLAVE configuration."					
Add PICS for "A method for configuring a PHY as MASTER or SLAVE shall be provided."	Response Response Status C					
Response Response Status C	ACCEPT IN PRINCIPLE.					
ACCEPT IN PRINCIPLE. All register additons in Clause 45 shall have PICS in the manner customary for Clause 45.	See response to comment #i-9.					
,	The response to comment i-9 is copied below for the convenience of the reader.					
C/ 45 SC 45.2.1 P 24 L 10 # [i-35] Mcclellan, Brett Marvell Semiconducto	ACCEPT IN PRINCIPLE.					
Comment Type TR Comment Status A page 26 section 45.2.1.14b defined a new register "BASE-T1 PMA/PMD extended ability register (1.18)", however the new register is not listed in Table 45-3.	Bit 1.2100.15 should be changed to "RO". ", writes ignored" should be deleted.					
	Cl 96 SC 96.3.3.1 P 50 L 15 # <u>i-37</u>					
SuggestedRemedy Add the new register to Table 45-3.	Mcclellan, Brett Marvell Semiconducto					
0	Comment Type E Comment Status A					
Response Response Status C ACCEPT IN PRINCIPLE.	transitions that do not share the same conditions should not share an entrance to a state. This also applies to other figures in this draft.					
See response to comment #i-8.	SuggestedRemedy Change the figures such that each transition has it's own entrance to a state					
The response to comment i-8 is copied below for the convenience of the reader.	Response Response Status C					
ACCEPT.	ACCEPT.					
	Scrub document for other instances of this type of problem.					

C/ 96 SC 96.3.3.1 P 50 L 12 # i-38 Law, David Hewlett-Packard Ltd Hewlett-P	C/ 96 SC 96.3.3.1 P 52 L 27 # [i-41] Law, David Hewlett-Packard Ltd Hewlett
Comment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. SuggestedRemedy	Comment Type E Comment Status A EZ Typo. SuggestedRemedy Suggest that ' states before IDLE state (including DATA state)' should read ' states
Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3.	before the IDLE state (including the DATA state)'.
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	C/ 96 SC 96.3.3.1 P 52 L 27 # [i-42] Law, David Hewlett-Packard Ltd Hewlett
C/ 96 SC 96.3.3.1 P 52 L 26 # i-39 Law, David Hewlett-Packard Ltd EZ Comment Type E Comment Status A	Comment Type T Comment Status A EZ Suggest reword without the use if shall statement as state diagram contains the normative requirements. EZ EZ
Typo. SuggestedRemedy Suggest that ' before DATA state;' should read ' before the DATA state;'. Response Response Status C ACCEPT.	SuggestedRemedy Suggest that ' that shall do DATA decoding.' be changed to read ' that perform DATA decoding.' Response Response Status C ACCEPT. C/ 96 SC 96.3.3.1 P 52 L 26 # [i-43]
C/ 96 SC 96.3.3.1 P 52 L 26 # i-40 Law, David Hewlett-Packard Ltd Hewlett-P	Law, David Hewlett-Packard Ltd
Comment Type E Comment Status A EZ Typo.	If this is a note, please use the correct formatting for a note.
	SuggestedRemedy
SuggestedRemedy Suggest that ' there are total of' should read ' there are a total of'.	See comment. Response Response Status C

ww, David Hewlett-Packard Lid arment Type Comment Status A Suggested Remody Suggested Remody Suggested Remody Suggested Remody Response Status C ACCEPT. (96) SC 96.3.3.1 P52 L 32 # Last (96) SC 96.3.3.2 P54 L 1 (96) SC 96.3.3.2 (96) SC 96.2.3.2 (96) SC 96.3.3.2 (96) SC 96.2.3.2 <th>o/</th> <th>00</th> <th></th> <th>2.50</th> <th>/</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>0.50</th> <th></th> <th></th>	o/	00		2.50	/						0.50		
Type E Comment Status A EZ Suggested rewording of the second sentence of the note. EZ Comment Type E Comment Status A Suggested rewording of the second sentence of the note be changed to read 'As a result, the dept in data fush-in delay line is the same as the fush-out delay line ensuing correct packet reception at the Mil. Suggest the two data fush-in delay line is the same as the fush-out delay line ensuing correct packet reception at the Mil. Suggest the two data fush-in delay line is the same as the fush-out delay line ensuing correct packet reception at the Mil. Suggest the two data fush recence reception in the Miles Suggest the two data fush recence	C/ 96		96.3.3.1	P 52	L 28	# i-44		C/ 96	SC 9	6.4.4	P 59	L 21	# i-47
Suggested rewording of the second sentence of the note. ggested/Remedy Suggest the the second sentence of the note be changed to read 'As a result, the dept of data flush-in delay line is the same as the flush-out delay line ensuring correct packet reception at the MIL. asponse Response Status C ACCEPT. 196 SC 96.3.3.1 P 52 L 32 # 445 moment Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. Imagested Remedy Suggest and the second sentence of the notes (status A) EZ 96 SC 96.3.3.2 P 54 L 1 # 465 w, David Hewlett-Packard Lid Imagested Remedy Sucception and the Will. Sucception A 96 SC 96.3.3.2 P 54 L 1 # 465 w, David Hewlett-Packard Lid Imagested Remedy Sucception Status A EZ 98 SC 96.3.3.2 P 54 L 1 # 465 w, David Hewlett-Packard Lid Imagester A image PAPC Sucception Status A Subclause 68.3.3.2 C 2 P 54 L 1 # 465 w, David Hewlett-Packard Lid Imagester A image PAPC	,							,					
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adaption at the second settle of the body aligned to read vs at result, the objection of the body aligned to read vs at result, the objection of the body aligned to read vs at result, the objection of the body aligned to read vs at result, the objection of the body aligned to read vs. at result, the objection of the body aligned to read vs. at result, the objection of the body aligned to read vs. at result, the objection of the body aligned to read vs. at result, the objection of the body aligned to read vs. at result, the objection of the the the body aligned to read vs. at result, the objection of the the body aligned to read vs. at result, the objection of the the the body aligned to read vs. at result, the objection of the the the body aligned to read vs. at result, the objection of the the the body aligned to read vs. at result, the objection of the the the body aligned to read vs. at result, the objection of the the the the period vs. There are variables, functions and timers defined for these state diagrams. regestedRemedy Change the text. The state variables in Figure' to read. The variables, functions and there decoding trates that "The received ternary pairs (RAn, RBn) are decoded to generate signals rx (data-2.0.> and isn't it hese that are converted by the 33.2 PCS Receive state diagram' generate signals are processed through 38.48 conversion. Suggest that the text these that are converted by the 34.48 conversion. Suggest that the text the signals rx_data-2.0.> and isn't it these that are converted by the 38.48 conversion. Suggest that the text the text signals rx_data-2.0.> and text the t			-						•			jeu.	
BigDOTSP Response Status C ACCEPT. Response Status C 196 SC 96.3.1 P52 L 32 # [45] Momment Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. EZ ggestedRemedy Change the text The state variables in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers defined for these state diagram's are accounted to generate signals rx_data_2:0-, rx_dv, and rx_error.' and that 'These signals are processed through 38/48 conversion to generate signals RX_data_2:0-, rx_dv, and isn't it these that are converted by the 38/48 conversion. ggesterdRemedy Subclause 404 Subgest that the text ' generate signals rx_data_2:0-, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data_2:0-, rx_dv, and rx_error.'	data fl	lush-in c	lelay line i				th of	Sugges frames	t the tex are excl	kt ' the hanged	with the link partner.' should b	e changed to	read ' the PHY into
ACCEPT. 196 SC 96.3.3.1 P52 L32 # 45 w, David Hewlet-Packard Ltd 500 mmeri Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. 197 Sc 96.3.3.2 P54 L1 # 46 ACCEPT. 196 SC 96.3.3.2 P54 L1 # 46 ACCEPT. 196 SC 96.3.3.2 P54 L1 # 46 197 T Comment Status A Subclause 96.3.3.2 PCS Receive symbol decoding' states that The received ternary pairs (RAn, RBn) are decoded to generate signals rx. data<2:0>, rx. dv, and rx. error.' RX, DV and RX, ER at the MI'l. Is this correct as Figure 96-10 PCS Receive state diagram' generates signals are processed through 3B/4B conversion to generate signals RX.D43-05, RX, DV and RX, ER at the MI'l. Is this correct as Figure 96-10 PCS Receive state diagram' generates signals rx_data<2:0>, rx. dv, and rx_error.' Suggest that the text ' generate signals rx_data<2:0>, rx. dv, and rx_error.'	Response			Response Status C					BASE-I	1 mode	•	an be exchang	jed with the link partner
1 96 SC 96.3.3.1 P52 L 32 # 45 wv, David Hewlett-Packard Ltd comment Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. uggestedRemedy Change the text The state variables in Figure' to read 'The variables, functions and timers defined for these state diagrams. uggestedRemedy Change the text The state variables in Figure' to read 'The variables, functions and timers defined for these state diagrams. uggestedRemedy P6 SC 96.3.2. P54 L 1 Hewlett-Packard Ltd omment Type T Comment Status A Subclause 96.3.3.2. P54 L 1 Wich RA, RAR The Mill: Is this correct as Figure 96-10 PCS Receive state diagram' generate signals rx_data<2.0>, nx_dv, and rx_error.' and that' These signals are processed through 3B/4B conversion to generate signals rx_data<2.0>, nx_dv, and rx_error.' unggestedRemedy SuggestedRemedy SuggestedRemedy <td< td=""><td>ACCE</td><td>PT.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>Response Status C</td><td></td><td></td></td<>	ACCE	PT.							-		Response Status C		
ww, David Hewlett-Packard Ltd omment Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. uggestedRemedy Change the text. The state variables in Figure' to read 'The variables, functions and timers used in Figure'. esponse Response Status C ACCEPT. 196 SC 96.3.3.2 P 54 L 1 Hewlett-Packard Ltd omment Type T Comment Status Subclause 96.3.3.2 'PCS Receive symbol decoding' states that 'The received temary pairs' (RAn, RBn) are decoded to generate signals rx_data<2:0>, rx_du, and rx_error.' and that' These signals are processed through 38/4B conversion to generate signals rx_data<2:0>, rx_dv, and isn't it these that are converted by the 38/4B conversion. uggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.'		00		D-				ACCEP	Τ.				
mmment Type E Comment Status A EZ There are variables, functions and timers defined for these state diagrams. timers used in Figure' to read 'The state variables in Figure' to read 'The variables, functions and timers defined for these state diagrams. uggested/Remedy Change the text The state variables in Figure' to read 'The variables, functions and timers used in Figure' to read 'The variables, functions and timers defined for these state diagrams. esponse Response Status C ACCEPT. Y 96 SC 96.3.3.2 P 54 L 1 # 146 with David Hewlett-Packard Ltd Hewlett-Packard Ltd Image: Status & A Subclause 96.3.3.2 PCS Receive symbol decoding 'states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data-2:0>. rx_dv, and rx_etror.' and that 'The ses signals are processed through 3B/4B conversion to generate signals rx_data-3:0>. RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pig_x_r_et p.cs_r_r_et varies and inst it these that are converted by the 3B/4B conversion. Here are converted by the 3B/4B conversion. usgested/Remedy Suggest that the text ', egnerate signals rx_data-2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data-2:0>, pcs_rx_dv, and pcs_rx_error.' Sbould be changed to read ' generate signals rx_data-2:0>, pcs_rx_dv, and pcs_rx_error.'.			96.3.3.1			# i-45							
There are variables, functions and timers defined for these state diagrams. UggestedRemedy Change the text The state variables in Figure' to read 'The variables, functions and timers used in Figure' esponse Response Status C ACCEPT. 96 SC 96.3.3.2 P54 L1 # i-46 aw, David Hewlett-Packard Ltd amment Type T Comment Status A Subclause 96.3.3.2 /PC5 Receive symbol decoding 'states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. guggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_error.'					ard Ltd								
Change the text 'The state variables in Figure' to read 'The variables, functions and timers used in Figure'. esponse Response Status C ACCEPT. 96 SC 96.3.3.2 P54 L1 # -46 w, David Hewlett-Packard Ltd comment Type T Comment Status A Subclause 96.3.3.2 'PCS Receive symbol decoding 'states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data-2:0-, rx_dv, and rx_error' and that' These signals are processed through 3B/4B conversion to generate signals RXD-3:0-, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data-2:0-, and isn't it these that are converted by the 3B/4B conversion. suggestedRemedy Suggest that the text ' generate signals rx_data-2:0-, rx_dv, and pcs_rx_error.'.					these state diag	grams.	ΕZ						
esponse Response Status C ACCEPT. Image: Sc 96.3.3.2 P54 L1 # image: Image: Sc 96.3.3.2 96 SC 96.3.3.2 P54 L1 # image: Image: Sc 96.3.3.2 97 T Comment Status A Subclause 96.3.3.2 PCS Receive symbol decoding' states that The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data<2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD-3:0>, RX_DV and RX_ER at the MIII. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. uggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.'. Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	Chang	ge the te	xt 'The sta		ead 'The variab	les, functions and							
ACCEPT. 96 SC 96.3.3.2 P54 L1 # -46 aw, David Hewlett-Packard Ltd <i>P54 L1 # -46</i> <i>P54 L1 # -46 <i>P54 L1 # -46 <i>P54 L1 # -46</i> <i>P54 L1 # -46 <i>P54 L1</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>			Figure										
96 SC 96.3.3.2 P 54 L 1 # [46] ww, David Hewlett-Packard Ltd pmment Type T Comment Status A Subclause 96.3.3.2 'PCS Receive symbol decoding' states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals r_data<2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD<3:0>, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. uggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.				Response Status C									
ww, David Hewlett-Packard Ltd omment Type T Subclause 96.3.3.2 'PCS Receive symbol decoding' states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data-2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD<3:0>, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data-2:0> and isn't it these that are converted by the 3B/4B conversion. urggestedRemedy Suggest that the text ' generate signals rx_data-2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data-2:0>, pcs_rx_dv, and pcs_rx_error.'.	ACCE	PI.											
comment Type T Comment Status A Subclause 96.3.3.2 'PCS Receive symbol decoding' states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data<2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD<3:0>, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. uzggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	c/ 96	SC	96.3.3.2	P 54	L 1	# [i-46							
Subclause 96.3.3.2 'PCS Receive symbol decoding' states that 'The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data<2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD<3:0>, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. uggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	aw, Davio	d		Hewlett-Packa	ard Ltd								
<pre>(RAn, RBn) are decoded to generate signals rx_data<2:0>, rx_dv, and rx_error.' and that ' These signals are processed through 3B/4B conversion to generate signals RXD<3:0>, RX_DV and RX_ER at the MII'. Is this correct as Figure 96-10 'PCS Receive state diagram' generates pcs_rx_er, pcs_rx_dv and rx_data<2:0> and isn't it these that are converted by the 3B/4B conversion. uggestedRemedy Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.</pre>	omment	Туре	т	Comment Status A									
Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	(RAn, These RX_D genera	RBn) and signals V and R ates pcs	re decode are proce X_ER at t s_rx_er, po	d to generate signals rx_data essed through 3B/4B convers he MII'. Is this correct as Figu	<pre>i<2:0>, rx_dv, and a sign to generate ure 96-10 'PCS</pre>	nd rx_error.' and th signals RXD<3:0> Receive state diag	at ' , ram'						
Suggest that the text ' generate signals rx_data<2:0>, rx_dv, and rx_error.' Should be changed to read ' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	Suggested	dRemed	'y										
' generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.	00			data<2:0>, rx_dv, and rx_err	or.'								
			0		cs_rx_error.'.								
	Response												

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

C/ 96	SC 96.4.7.1	P 59	L 42	# i-48
Law, David		Hewlett-Pack	ard Ltd	

Comment Type T Comment Status A

The description of the config variable states that 'The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG.indication primitive.' which implies it is a output of the state diagram, and Figure 96-14 shows it as an output of the PHY CONTROL block, yet it is actually used as an input to Figure 96-17 'PHY Control state diagram' controlling the transition from the 'SLAVE SILENT' to 'TRAINING'.

SuggestedRemedy

Please provide details of how this variable is generated.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #i-56.

The response to comment i-56 is copied below for the convenience of the reader.

ACCEPT IN PRINCIPLE.

1) In Figure 96-2, remove the dashed line at top with "Technology Dependent Interface" text. Add a block label as "MANAGEMENT" at top. Connect the two lines link_control and link_status to the right side of this new "MANAGEMENT" block. From left hand-side, add two signal inputs to the "MANAGEMENT" block, called "MDIO" and "MDC". Generate an output signal from "MANAGEMENT" block and connect it to the existing "config" signal. Re-direct the output "config" signal of "PHY CONTROL" to be input to "PHY CONTROL". See modified figure in http://ieee802.org/3/bw/public/Chini_3bw_01_0515.pdf.

2) Delete subclause 96.2.1 and all children subclauses, and re-number other sub-clauses accordingly.

3) In Figure 96-3, remove the dashed line at top and "Technology Dependent Interface" text. Also, remove the three lines labeled PMA_LINK.request, PMA_LINK.indication, and PMA_CONFIG.indication and the text.

4) In Figure 96-14, follow the same modification as above for Figure 96-2.

5) On page 59 line 29, change

"FORCE mode is used to set link_control to ENABLE during the PHY initialization.Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control."

to

"Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control. FORCE mode is used to set link_control to ENABLE through MANAGEMENT during the PHY initialization."

6) On page 59 line 45, change

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

"link_control This variable is configured by management or set by default and is defined in 28.2.6.2. " To

"link_control This variable is generated by MANAGEMENT or set by default."

7) on page 43 line 8, change "config The config parameter set by PMA and passed to the PCS via the PMA_CON-FIG.indication primitive." To

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

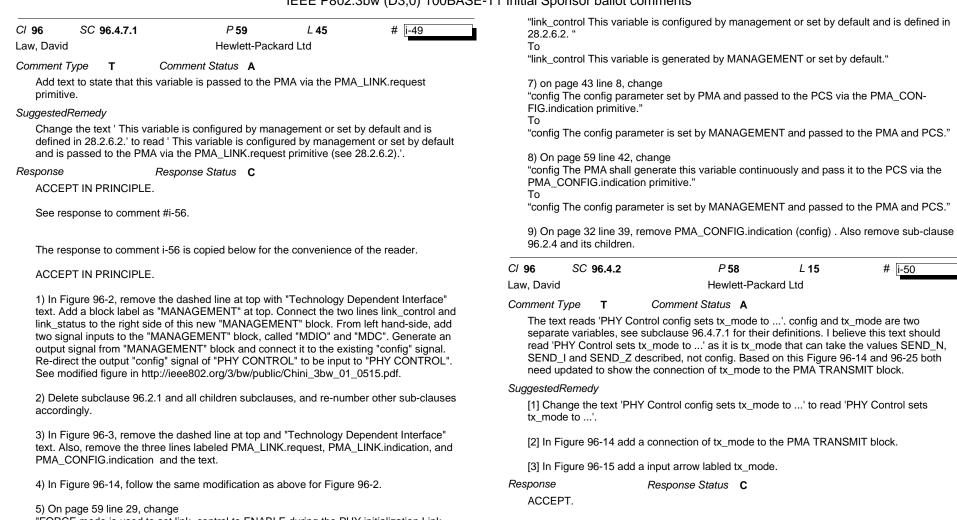
8) On page 59 line 42, change

"config The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

9) On page 32 line 39, remove PMA_CONFIG.indication (config) . Also remove sub-clause 96.2.4 and its children.



"FORCE mode is used to set link_control to ENABLE during the PHY initialization.Link Monitor operation, as shown in state diagram of Figure 96-18, shall be provided to support PHY Control."

to

"Link Monitor operation, as shown in state diagram of Figure 96-18, shall be provided to support PHY Control. FORCE mode is used to set link control to ENABLE through MANAGEMENT during the PHY initialization."

6) On page 59 line 45, change

C/ 96	SC 96.4.2		P 58	L 15	# <u>i-50</u>
Law, Davi	id		Hewlett-Pack	kard Ltd	
-		-			

Accept remedy#1.

On page 58, line 15, move "PHY Control sets tx mode to SEND N (transmission of normal MII Data Stream. Control Information. or idle), SEND I (transmission of IDLE code-groups), or SEND Z (transmission of zero code-groups). " to the end of 96.4.4.

Additionally, accept commenter's [2] and [3] suggested remedies.

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-50

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-											
C/96 SC 9	96.4.2	P 58	L 19	# i-51	C/ 96	SC 9	96.4.3		P 58	L 39	# <u>i-53</u>
aw, David		Hewlett-Pacl	kard Ltd		Law, David	ł		H	ewlett-Pack	ard Ltd	
Comment Type	T Co	omment Status A			Comment	Туре	Е	Comment Sta	tus A		
Function derive PMA_CONFIG	es the TX_TC indicates SL/	CONFIG indicates MA LK from a local clock s AVE mode'. It is the can take the vales MA	ource. When parameter config	contained in the							e sentence goes on link is ok or not, in
-	_	can take the vales wir	STER OF SEAVE		Suggested		•				
SuggestedRemedy Suggest that te					Delete	the tex	t ' conve	eys the information	on'.		
00		tes MASTER mode the	en the PMA Trans	smit Function derives	Response			Response Stat	us C		
the TX_TCLK f		ock source. When			ACCE	PT IN P	RINCIPL	.E.			
be changed to	read					Control f					CS Receiver, PMA all received link is of
PMA Transmit	Function deriv	in the PMA_CONFIG p ves the TX_TCLK from FIG primitive indicates	a local clock sou	urce. When the config	<i>CI</i> 96 Law, David	SC 9	96.4		P 56 ewlett-Pack	L 4 ard Ltd	# i-54
Response	Re	sponse Status C			Comment	Tvpe	Е	Comment Sta	tus A		
ACCEPT IN PI					Sugge	st rewo		text 'The PMA pro		uplex communica	ations employing to
Change text to		is set to MASTER, the	PMA Transmit F	Function derives the	Suggested	IRemed	'v	-			
TX_TCLK from	n a local clock tion derives th			set to SLAVE, the PMA	Sugge mediu	st the te m using	ext 'The P ⊨ 3-level .	PMA provides full ' be changed to I from medium en	read 'The F	MA provides full	loying to and from duplex
C/96 SC 9	96.4.3	P 58	L 37	# i-52	Response			Response Stat	us C		
aw, David	0.4.5	Hewlett-Pacl	-	# I-32	ACCE	PT.					
Comment Type	E Co	omment Status A		EZ							
states 'The par of the receive I	rameter loc_ro	ate loc_rcvr_status (ge vr_status is generated I PHY.'. The parenthet an explanation of what	by PMA Receive ical text seems re	e to indicate the status edundant as the							
SuggestedRemedy											
Delete the text	t '(general stat	us of local receiver)'.									
Response	Re	sponse Status C									
ACCEPT.											

ACCEPT.

CI 96	SC 96.4.1	P 56	L 12	# i-55	C/ 96	SC 96.1	P 29	L 3	# i-56
Law, David	ł	Hewlett-Packa	ard Ltd		Law, Davi	d	Hewlett-Packa		

Comment Type т Comment Status A

This text reads 'This function shall conform to 40.4.2.1 without any exceptions, noting that the 36.2.5.1.3 reference is valid and the optional LPI reference is not used.' I don't see the point of stating that 'the 36.2.5.1.3 reference is valid' since it is already stated that subclause 40.4.2.1 will be followed without any exceptions. Further, on examination of 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power on in subclause 36.2.5.1.3 does mention the low power mode bit (0.11) in the Clause 22 MII Control register, but this is not related to LPI. Instead this is a Power down bit which places the PHY in a mode whereby it is only required to respond to management transactions (see IEEE Std 802.3-2012 subclause 22.2.4.1.5). Since 100BASE-T1 is supporting Clause 45 registers this bit will not be supported.

SuggestedRemedy

Change the text 'This function shall conform to 40.4.2.1 without any exceptions, noting that the 36.2.5.1.3 reference is valid and the optional LPI reference is not used.' to read 'This function shall conform to 40.4.2.1.'.

Response Response Status C

ACCEPT IN PRINCIPLE.

In 96.4.1 change:

"This function shall conform to 40.4.2.1 without any exceptions, noting that the 36.2.5.1.3 reference is valid and the optional LPI reference is not used."

to

"This function shall conform to 40.4.2.1. The optional low power mode referenced in 36.2.5.1.3 is not supported."

CI	96 SC	96.1		P 29	L 3	# 1-:	56
Lav	v, David		He	ewlett-Packard L	td	_	
~	· -						

Comment Type Comment Status A Е

The Technology Dependent Interface should be designated with a dashed line and a cross reference to Clause 28 where it is defined should be added.

SuggestedRemedy

[1] Add a dashed line to designate the Technology Dependent Interface. [2] Change the text 'Technology Dependent Interface' to read 'Technology Dependent Interface (Clause 28)'.

Response Response Status C

ACCEPT IN PRINCIPLE.

1) In Figure 96-2, remove the dashed line at top with "Technology Dependent Interface" text, Add a block label as "MANAGEMENT" at top. Connect the two lines link control and link status to the right side of this new "MANAGEMENT" block. From left hand-side, add two signal inputs to the "MANAGEMENT" block, called "MDIO" and "MDC". Generate an output signal from "MANAGEMENT" block and connect it to the existing "config" signal. Re-direct the output "config" signal of "PHY CONTROL" to be input to "PHY CONTROL". See modified figure in http://ieee802.org/3/bw/public/Chini 3bw 01 0515.pdf.

2) Delete subclause 96.2.1 and all children subclauses, and re-number other sub-clauses accordingly.

3) In Figure 96-3, remove the dashed line at top and "Technology Dependent Interface" text. Also, remove the three lines labeled PMA LINK.request, PMA LINK.indication, and PMA CONFIG.indication and the text.

4) In Figure 96-14, follow the same modification as above for Figure 96-2.

5) On page 59 line 29, change

"FORCE mode is used to set link control to ENABLE during the PHY initialization.Link Monitor operation, as shown in state diagram of Figure 96-18, shall be provided to support PHY Control."

to

"Link Monitor operation, as shown in state diagram of Figure 96-18, shall be provided to support PHY Control. FORCE mode is used to set link control to ENABLE through MANAGEMENT during the PHY initialization."

6) On page 59 line 45, change

"link control This variable is configured by management or set by default and is defined in 28.2.6.2."

Τo

"link control This variable is generated by MANAGEMENT or set by default."

7) on page 43 line 8, change "config The config parameter set by PMA and passed to the PCS via the PMA CON-

Comment ID i-56

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FIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

8) On page 59 line 42, change

"config The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

9) On page 32 line 39, remove $\mathsf{PMA}_\mathsf{CONFIG}.indication$ (config) . Also remove sub-clause 96.2.4 and its children.

CI 96	SC 96.1	P 29	L 24	#	i-57
Law, David	l	Hewlett	-Packard Ltd		

Comment Type TR Comment Status A

The MII TX_EN signal is shown crossing the PMA service interface to the PHY CONTROL block yet the PMA Service Interface defined in 96.2.2, and illustrated in Figure 96-3, does not support this. Further the PHY CONTROL state diagram does not use TX_EN, although it does use tx_enable (see page 62, line 1).

SuggestedRemedy

 Remove the TX_EN connection to PHY CONTROL in Figure 96-2 and 96-14.
 If tx_enable is required by PHT CONTROL, updated the PMA Service Interface defined in 96.2.2 to provide a primitive to signal tx_enable across the PMA Service Interface and update in Figure 96-2 and 96-14 accordingly.

Response Response Status C

ACCEPT IN PRINCIPLE.

1) In Figure 96-17, rename "tx_enable" to "TX_EN".

2) In 96.2.2, add the following to the list: "PMA_TXEN.request (TX_EN)"

3) In Figure 96-3, add a connection from PCS to PMA, with label: "PMA_TXEN.request"

4) On page 37 line 26 (before 96.3), add the following sections:

96.2.11 PMA_TXEN.request This primitive indicates the presence of data on MII for transmission.

96.2.11.1 Semantics of the primitive PMA_TXEN.request (TX_EN)

The TX_EN parameter can take on one of two values of the form: TRUE The data transmission on MII is enabled. FALSE The data transmission on MII is not enabled.

96.2.11.2 When generated PCS generates the PMA_TXEN.request messages continuously based on TX_EN signal received from MII.

96.2.11.3 Effect of receipt The effect of receipt of this primitive is specified in Figure 96–17.

aw, David	P 33 Hewlett-Packa	<i>L</i> 2 ard Ltd	# i-58	<i>Cl</i> 96 SC 96.3 Law, David	P 38 Hewlett-Pac	<i>L</i> 37 kard Ltd	# <u>i-61</u>
Comment Type E Commer Why is Figure 96-3, which is an ove detailed view of the signals.	nt Status A erview, placed afte	er Figure 96-2, v	L which is the more		Comment Status R rtical dashed line to designate Service interface.	e the Media Inde	pendent In-terface as
<i>SuggestedRemedy</i> Swap the order of Figure 96-3 and	Figure 96-2.			SuggestedRemedy See comment.			
Response Response Response	e Status C			Response REJECT.	Response Status C		
7 96 SC 96.3	P 38	L 20	# [i-59	The vertical dashed l	ne is present in the figure 96-	4.	
aw, David Comment Type T Commer	Hewlett-Packa nt Status R	rd Ltd		C/ 96 SC 96.3.2.1 Law, David	P 39 Hewlett-Pac	L 5 kard Ltd	# i-62
SuggestedRemedy Add pcs_reset as an input. Response Response REJECT.	e Status C			reference is to ' the diagram is 'PCS data SuggestedRemedy	Comment Status A 96.3.2.1 'PCS data transmissi PCS data transmission enab transmission enabling state of er 'transmission enable' or 'tra	ling' and the n diagram'.	ame of the state
pcs_reset is a global signal genera		0	"		Response Status C		-
2/ 96 SC 96.3 aw, David Comment Type E Commer The block is labelled 'PCS DATA T data transmission enable'.	P 38 Hewlett-Packa Int Status A RANSMIT ENABL		# <u>i-60</u> e 96.3.2.1 is 'PCS		and the first instance in the pa	aragraph to " t	ransmission enabling".
Suggest that these should match.							
Response Response ACCEPT IN PRINCIPLE.	e Status C						

SC 96.3.2.2		L 4	# i-63	C/ 96 SC 96.3.		P 40	L 30	# i-65
aw, David	Hewlett-Pack	kard Ltd		Law, David		Hewlett-Pack	ard Ltd	
omment Type E	Comment Status A			Comment Type T	Comment S	tatus A		
this has TXD<3:0>, tx_	-4 the 4B/3B conversion func _error_mii and tx_enable_mii	subclause 96.3.2.3 is	It seems odd to inc section.	lude a shall stateme	ent in respect	to the receiver in	n the transmit PCS	
	clause, suggest that the 4B/3 e moved under 96.3.2.3.	3.2.2, and its	SuggestedRemedy					
iggestedRemedy			Suggest ' shall be discarded at the re	e discarded at the re	eceiver side u	pon' should re	ead ' will be	
	96.3.3 PCS Transmit to mat	ch block in Figur	e 96-4.					
[2] Renumber 96.3.2.2 [3] Renumber remainir	2 to 96.3.3.1 as the first subclang subclauses.	ause (function) of	f the PCS transmit.	Response ACCEPT.	Response St	tatus C		
esponse	Response Status C			Update PICS acco	dingly.			
ACCEPT IN PRINCIPL	LE.			C/ 96 SC 96.3.	n o	P 42	L 19	# i-66
Remove "96.3.2 PCS	Transmit".			Law, David		F 42 Hewlett-Pack		# [1-00
Change "96.3.2.1" to "	'96.3.2"			Comment Type E	Comment S	tatus A		
Insert "96.3.3 PCS Tra	ansmit" before "96.3.2.2 4B/3	B conversion"		This text, and the f function for examp				
Insert "96.3.3 PCS Tra Renumber as necessa		B conversion"		function for examp SuggestedRemedy		PCS transmi	t (see my previou	
Renumber as necessa	ary. .2 P 40	L 30	# li-64	function for examp SuggestedRemedy Rename this subcl	e is also part of the ause to be 'PCS Tra	PCS transmi	t (see my previou	
Renumber as necessa	ary.	L 30	# [i-64	function for examp SuggestedRemedy	e is also part of the	PCS transmi	t (see my previou	
Renumber as necessa 96 SC 96.3.2.2. w, David	ary. .2 P 40	L 30	# [i-64	function for examp SuggestedRemedy Rename this subcl Response ACCEPT.	e is also part of the ause to be 'PCS Tra <i>Response St</i>	PCS transmi ansmit state d tatus C	t (see my previoi	us comment).
Renumber as necessa 96 SC 96.3.2.2. w, David comment Type E	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of	<i>L</i> 30 kard Ltd		function for examp SuggestedRemedy Rename this subcl Response	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1	PCS transmi	t (see my previoi liagram'. <i>L</i> 8	
Renumber as necessa 96 SC 96.3.2.2. w, David mment Type E Suggest ' shall be dis discarded at the received	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of	<i>L</i> 30 kard Ltd		function for examp SuggestedRemedy Rename this subcl Response ACCEPT. CI 96 SC 96.3.	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1	PCS transmi ansmit state d tatus C P 43 Hewlett-Pack	t (see my previoi liagram'. <i>L</i> 8	us comment).
Renumber as necessa 96 SC 96.3.2.2. w, David <i>comment Type</i> E Suggest ' shall be dis discarded at the receive	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of	<i>L</i> 30 kard Ltd		function for examp SuggestedRemedy Rename this subcl Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1	PCS transmi ansmit state d tatus C P 43 Hewlett-Pack tatus A	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. w, David mment Type E Suggest ' shall be dis discarded at the receiver segestedRemedy See comment.	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of	<i>L</i> 30 kard Ltd		function for examp SuggestedRemedy Rename this subcl Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i>	PCS transmi ansmit state d tatus C P 43 Hewlett-Pack tatus A	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. w, David bomment Type E Suggest ' shall be dis discarded at the receiver byggestedRemedy See comment.	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of ver upon'.	<i>L</i> 30 kard Ltd		function for exampl SuggestedRemedy Rename this subcl Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T Delete the config v	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i>	PCS transmi ansmit state d tatus C P 43 Hewlett-Pack tatus A	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. w, David mment Type E Suggest ' shall be dis discarded at the receiv ggestedRemedy See comment. sponse	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side to ver upon'. <i>Response Status</i> C	<i>L</i> 30 kard Ltd		function for exampl SuggestedRemedy Rename this subcl Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T Delete the config v SuggestedRemedy	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i>	PCS transmi ansmit state d tatus C P43 Hewlett-Pack tatus A sed in the tran	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. w, David mment Type E Suggest ' shall be dis discarded at the receiv ggestedRemedy See comment. sponse REJECT. See response to comm	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side to ver upon'. <i>Response Status</i> C	<i>L</i> 30 kard Ltd upon' should re	ead ' shall be	function for exampl SuggestedRemedy Rename this subcl. Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T Delete the config v SuggestedRemedy See comment.	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i> ariable as it is not u <i>Response St</i>	PCS transmi ansmit state d tatus C P43 Hewlett-Pack tatus A sed in the tran	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. ww, David pmment Type E Suggest ' shall be diadiscarded at the receive uggestedRemedy See comment. esponse REJECT. See response to comm The response to comm	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of ver upon'. <i>Response Status</i> C ment #i-65.	<i>L</i> 30 kard Ltd upon' should re	ead ' shall be	function for exampl SuggestedRemedy Rename this subcl. Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T Delete the config v SuggestedRemedy See comment. Response ACCEPT IN PRINC	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i> ariable as it is not u <i>Response St</i>	PCS transmi ansmit state d tatus C P43 Hewlett-Pack tatus A sed in the trans tatus C	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>
Renumber as necessa 96 SC 96.3.2.2. aw, David <i>comment Type</i> E Suggest ' shall be dis discarded at the received <i>uggestedRemedy</i> See comment. <i>esponse</i> REJECT. See response to comm	ary. .2 P 40 Hewlett-Pack <i>Comment Status</i> R iscarded at the receiver side of ver upon'. <i>Response Status</i> C ment #i-65.	<i>L</i> 30 kard Ltd upon' should re	ead ' shall be	function for exampl SuggestedRemedy Rename this subcl. Response ACCEPT. CI 96 SC 96.3. Law, David Comment Type T Delete the config v SuggestedRemedy See comment. Response ACCEPT IN PRINC	e is also part of the ause to be 'PCS Tra <i>Response St</i> 2.3.1 <i>Comment S</i> ariable as it is not u <i>Response St</i> CIPLE. config definition in S	PCS transmi ansmit state d tatus C P43 Hewlett-Pack tatus A sed in the trans tatus C	t (see my previou liagram'. <i>L</i> 8 ard Ltd	us comment). # [<u>i-67</u>

C/ 96 SC 96.3.2.3.1 P 43 L 11 Law, David Hewlett-Packard Ltd	i-68 C/ 96 SC 96.3.2.4 P 46 L 15 # i-71 Law, David Hewlett-Packard Ltd
Comment Type T Comment Status R Delete the DATA variable as it is not used in the transmit state diagrams.	Comment Type T Comment Status A Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler.
SuggestedRemedy See comment. Response Response Status C REJECT. The variable DATA is referenced in section 96.3.2.4.10.	SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Response Response Status C ACCEPT.
	i-69 C/ 96 SC 96.3.2.4 P 46 L 3 # i-72 Law, David Hewlett-Packard Ltd Comment Type E Comment Status A
Comment Type T Comment Status A Delete the tx_symb_vector variable as it is not used in the transmit state dia SuggestedRemedy See comment.	ams. Please label the signals from the block 'SYMBOL MAPPING' to the block '2D to 1D'. SuggestedRemedy See comment. Response Response Status C
Response Response Status C ACCEPT IN PRINCIPLE. Remove duplicate tx_symb_vector definition in 96.3.2.3.1.	ACCEPT IN PRINCIPLE.
Config is defined in 96.2.5.1.	C/ 96 SC 96.3.2.4 P 46 L 4 # [i-73] Law, David Hewlett-Packard Ltd Hewlett-
Cl 96 SC 96.3.2.4 P 45 L 34 Law, David Hewlett-Packard Ltd Comment Type T Comment Status A The text states that 'The reference diagram of PCS transmit symbol mapping in Figure 96-8.' however the figure shown in Figure 96-8 is much broader the transmit symbol mapping, for example the 4B/3B conversion block is shown the blocks itself is labled 'SYMBOL MAPPING'.	just PCS 'SYMBOL MAPPING'.
Suggest text be changed to read ' 'The reference diagram of PCS transmit is Figure 96-8.' . The title of Figure 96-8 should also be changed.	Add tx_mode and tx_enable as inputs to the block 'SYMBOL MAPPING'. shown in Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT IN PRINCIPLE.	Add tx_mode as an input to "Symbol Mapping" block. tx_enable is already an input to thi block.

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

6/26/2015 3:10:34 PM

C/ 96 SC 96.3.2.4 P 46 L 8 # [i-74] Law, David Hewlett-Packard Ltd Hewle	C/ 96 SC 96.2.6.1 P 35 L 27 # i-77 Wienckowski, Natalie General Motors Comp Finite Comp Finit Comp Finite
Comment Type T Comment Status A Based on the equations in subclause 96.3.2.4.4 using both tx_enable and loc_rcvr_status as inputs, these need to be added as inputs to the 'DATA SCRAMBLER' block. SuggestedRemedy Add both tx_enable and loc_rcvr_status as inputs to the 'DATA SCRAMBLER' block. Response Response Status C ACCEPT. C	Comment Type E Comment Status A Inconsistent variable name SuggestedRemedy Replace: are called rx_symbol_vector[BI_DA] With: are called rx_symb_vector[BI_DA] Response Response Status C ACCEPT.
Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER"	C/ 96 SC 96.10.4.4 P 80 L 19 # i-78 Wienckowski, Natalie General Motors Comp Comment Type E Comment Status A
Cl 96 SC 96.3.2.4 P 46 L 8 # i-75 Law, David Hewlett-Packard Ltd Hewlett-Packard Ltd Comment Type T Comment Status A It is not clear how the PCS transmit state diagram fits within the figure. As an example in the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. SuggestedRemedy	Variable name used in PICS does not match name in the rest of the document. SuggestedRemedy Replace: max_wait_timer With: maxwait_timer Response Response Status C ACCEPT.
Show where the PCS transmit state diagram fits within this figure. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.2.4, add the following after the first sentence "The tx_symb_pair is the ternary pair (TAn, TBn)."	Cl 96 SC 96.10.4.4 P 80 L 21 # i-79 Wienckowski, Natalie General Motors Comp Comment Type E Comment Status A Variable name used in PICS does not match name in the rest of the document. SuggestedRemedy Depleces min unit times
Cl 96 SC 96.2.6.1 P 35 L 22 # [i-76] Wienckowski, Natalie General Motors Comp Comment Type E Comment Status A Inconsistent variable name SuggestedRemedy Replace: The rx_symbol_vector	Replace: min_wait_timer With: minwait_timer <i>Response Response Status</i> C ACCEPT.
With: The rx_symb_vector 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

 Wienckowski, Natalie General Motors Comp Comment Type T Comment Status A Register 1.2100 (Table 45-98a) will be used in 802.3bp as well. Change of register name and subclause titles are needed. SuggestedRemedy i. Change page 24, line 13, in Table 45-3, Register name for address 1.2100 from "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". ii. Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131 BASE-T1 PMA/PMD". iii. Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD" to "The assignment of bits in the BASE-T1 PMA/PMD". iv. Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". v. Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". v. Change page 26, line 50, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". vi. Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3 BASE-T1 type". 	2/ 45 SC 45.2.1.131	P 26	L 21	# <u>i-80</u>
 Register 1.2100 (Table 45-98a) will be used in 802.3bp as well. Change of register name and subclause titles are needed. <i>SuggestedRemedy</i> Change page 24, line 13, in Table 45-3, Register name for address 1.2100 from "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131 BASE-T1 PMA/PMD". Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD" to "The assignment of bits in the BASE-T1 PMA/PMD". Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 MASTER-SLAVE manual". Change page 26, line 50, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3 	Vienckowski, Natalie	General Mote	ors Comp	
and subclause titles are needed. SuggestedRemedy i. Change page 24, line 13, in Table 45-3, Register name for address 1.2100 from "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". ii. Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131 BASE-T1 PMA/PMD". iii. Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD" to "The assignment of bits in the BASE-T1 PMA/PMD". iv. Change page 26, line 23, from "45.2.1.131.1 100BASE-T1 PMA/PMD" to "BASE- T1 PMA/PMD". v. Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE- T1 PMA/PMD". v. Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 MASTER-SLAVE manual" to "45.2.1.131.1 BASE-T1 MASTER-SLAVE manual". vi. Change page 26, line 50, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". vii. Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3	Comment Type T	Comment Status A		
 i. Change page 24, line 13, in Table 45-3, Register name for address 1.2100 from "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". ii. Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131 BASE-T1 PMA/PMD". iii. Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD" to "The assignment of bits in the BASE-T1 PMA/PMD". iv. Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". v. Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 MASTER-SLAVE manual" to "45.2.1.131.1 BASE-T1 MASTER-SLAVE manual". vi. Change page 26, line 50, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". vii. Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3 	5	,	3bp as well. Char	nge of register name
 "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". ii. Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131 BASE-T1 PMA/PMD". iii. Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD" to "The assignment of bits in the BASE-T1 PMA/PMD". iv. Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-T1 PMA/PMD". v. Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 MASTER-SLAVE manual". v. Change page 26, line 45, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". vi. Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3 	SuggestedRemedy			
	"100BASE-T1 PMA/PMI ii. Change page 26, line BASE-T1 PMA/PMD". iii. Change page 26, line to "The assignment of b iv. Change page 26, line T1 PMA/PMD". v. Change page 26, line to "45.2.1.131.1 BASE- vi. Change page 26, line "45.2.1.131.2 BASE-T1 vii. Change page 27, line	D control" to "BASE-T1 PM 21 from "45.2.1.131 100B/ 23 from "The assignment t ts in the BASE-T1 PMA/PM 26, Table 45-98a title rom 45, from "45.2.1.131.1 100 1 MASTER-SLAVE manua 50, from "45.2.1.131.2 100 MASTER/SLAVE config"	A/PMD control". SE-T1 PMA/PMD of bits in the 100B ID". "100BASE-T1 PM BASE-T1 MASTE I". DBASE-T1 MASTE	D" To "45.2.1.131 ASE-T1 PMA/PMD" MA/PMD" to "BASE- R-SLAVE manual" ER/SLAVE config" to

ACCEPT.