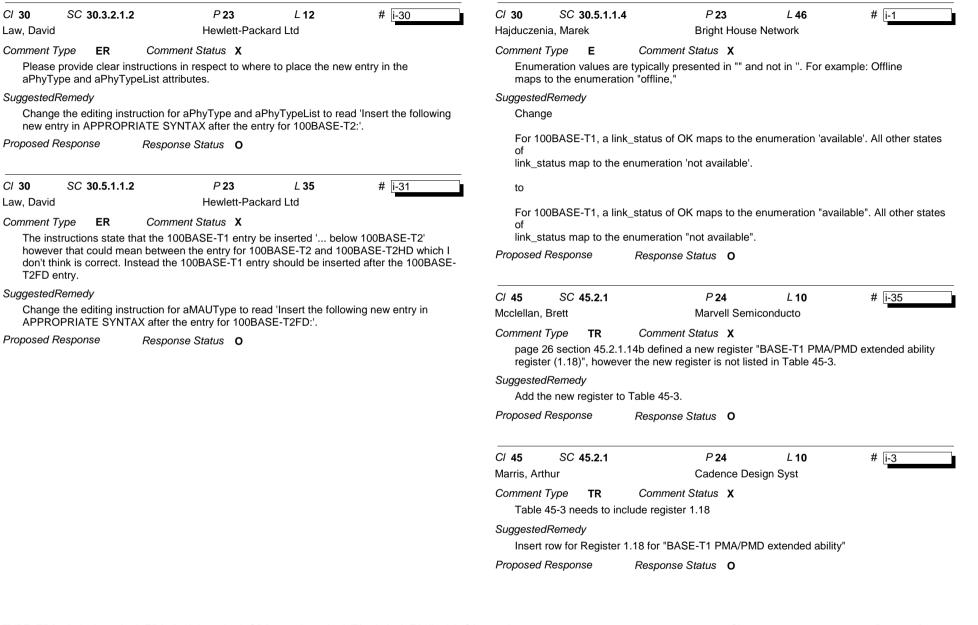
$P = I = \frac{1}{2}$	
C/ 00 SC 0 P L # i-14 Garlson, Steven Marvell Semiconducto	C/ 00 SC 0 P 2 L 1 # i-28 Law, David Hewlett-Packard Ltd Hewlett-Packard Ltd Hewlett-Packard Ltd
omment Type TR Comment Status X The draft doe not align with its objectives. Support 100 Mb/s operation in automotive environments (e.g. EMC, temperature) over a single balanced twisted pair. Do not preclude the ability to survive automotive fault conditions (e.g. shorts, over voltage, EMC, ISO16750).	Comment Type E Comment Status X This amendment to IEEE Std 802.3-201x defines type 100BASE-T1 PCS, type 100BASE-T1 PMA sublayer, and type 100BASE-T1 Medium Dependent Interface, used in 100BASE T1 PHY. This specification provides fully functional and electrical specifications for the type 100BASE-T1 PHY. This specification also specifies the baseband medium used with 100BASE-T1. SuggestedRemedy SuggestedRemedy
No reference is made to temperature or ISO16750 in the draft. There is some material on overvoltage, but it is not referenced to ISO16750.	This amendment to IEEE 802.3 Standard for Ethernet defines the 100BASE-T1 Physical Layer (PHY) specifications and management parameters for point-to-point full duplex 100 Mb/s operation over single twisted pair balanced cabling.
Incorporate Clause 97.10 Environmental Specifications in P802.3bp D1.4. This will supply all the relevant references, and will align 100BASE-T1 and 1000BASE-T1.	This specification provides fully functional and electrical specifications for the type 100BASE-T1 PHY. This specification also specifies the baseband medium used with 100BASE-T1.
	Proposed Response Response Status O
00 SC 0 P L # <u>i-15</u>	
arlson, Steven Marvell Semiconducto	C/ 01 SC 1.3 P18 L 14 # [i-29
omment Type TR Comment Status X	Law, David Hewlett-Packard Ltd
The draft is not aligned with the project objectives.	Comment Type E Comment Status X Typo, missing space.
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.	SuggestedRemedy The text ' engines -Radio' should read ' engines - Radio'.
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.	Proposed Response Response Status O
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.	C/ 01 SC 1.3 P 18 L 14 # i-16 Turner, Michelle
	Comment Type GR Comment Status X
uggestedRemedy Create a new subclause (not sure where) "Start-up Time", and provide the necessary information. proposed Response Response Status	IEC CISPR 25 Edition 3.0 is cited in the normative reference clause, however it is not cite in text. Does this document appear in previous amendments or in the base? If not please cite in text. If it's not needed for the implementation of the standard, it shouldn't be in the normative reference clause.
	SuggestedRemedy

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 01	Page 1 of 16
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 1.3	17/05/2015 05:32:15
SORT ORDER: Clause, Subclause, page, line		

C/01 SC 1.5	P 20	L 52	# i-6	CI 22 S	SC 22.1	P 22	<i>L</i> 1	# i-12	
nslow, Peter	Ciena Corpora	ation		Grow, Robert		Self Employ	ed		
omment Type ER	Comment Status X			Comment Type	e GR	Comment Status X			
abbreviations list). In th	<i>N</i> " and "VBW" only appear o is case, we do not include th					ed with the file 85554200003		-	
abbreviation where it is	used instead.					anges to Clause 22 to be con //D3.0, page 45, line 40.	ipatible with the	base document. This i	
uggestedRemedy Remove the abbreviation	ons "RBW" and "VBW" from	1.5.		The staten	nent that the	e MII is for PHYs of 10 Mb/s	and above is clea	arly wrong. The MII is	
	kHz, VBW=30 kHz," to: bandwidth = 10 kHz, video l	bandwidth = 30 k	:Hz,"	only specif applicable	fied for 10 N to some of	Ab/s and 100 Mb/s, and the M the 1000 Mb/s PHYs that ha the MII management interfac	III management	interface is also only d. P802.3bw does not	
roposed Response	Response Status O					atic text (P802.3/D3.0):			
						v does not use these signals, e needs to be optional to clai			
		componen	its are sepa	se describes exposed interfa rable (e.g., use data paths b apply to a logical interface.)					
				22.1.5 "to determine PHY capabilities for any supported speed of operation". This is r true for many Ethernet PHYs. Since P802.3bw is 100 Mb/s PHYs and it does not use N capabilities for management, it has the greatest burden to make sure Clause 22 is corrected.					
				PHYs that Control reg (Register 1 fundament extended r	provide a G gister (Regis 15). The sta tal to 100 M	II PHYs that provide an MII s GMII shall incorporate an extension ster 0), Status register (Registus tus and control functions def b/s and 1000 Mb/s PHYs. Ref " P802.3bw is, I believe, the ked.	nded basic regis ster 1), and Exter ined here are cor egisters 2 throug	ter set consisting of the nded Status register nsidered basic and n 14 are part of the	
				22.8.3.5, N	/IF45 and M	IF 59 "all PHYs". Not true	of a P802.3bw P	HY.	
				SuggestedRen	nedy				
				comment I Clause 22 The P802.	has been si will also ne	oses changes to Clauses 22 ubmitted on P802.3 (to also f ed to be revised to provide o build take the lead in correctio .3bw.	x for Gigabit). If ptionality similar	accepted, the PICS fo to that in Clause 35.	



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C/ 45 SC 45.2.1	P 24	L 3	# i-7	C/ 45 SC 45	5.2.1.131	P 26	L 30	# i-36
Anslow, Peter	Ciena Corpora	ation		Mcclellan, Brett		Marvell Semi	iconducto	
Comment Type E C	Comment Status X			Comment Type	TR Comm	ent Status X		
For the existing clauses that of each level down to the he FrameMaker template). Headings for 45.2, 45.2.3, a	eading for the text being r	he amendment, modified. (As wa	we show one heading as shown in the 802.3	but the last colu which contradic	Imn indicates R/W	enable description V. The description f not precluding au	should not say th	ays 1, writes ignored" nat writes are ignored
SuggestedRemedy	,			SuggestedRemedy	tion to "Cot to 1 fo	or manual configur	otion"	
Add the headings for 45.2, 4	45.2.3, and 45.2.3.1					returns a one to ir		TER or SLAVE
Proposed Response Re	esponse Status O			configuration is to "Bit 1.2100.1		manual MASTER	or SLAVE config	guration."
				Proposed Response	e Respon	se Status O		
C/ 45 SC 45.2.1	P 24	L 5	# i-8					
Inslow, Peter	Ciena Corpora	ation		CI 45 SC 45	5.2.1.131	P 26	L 30	# i-9
omment Type TR C	Comment Status X			Anslow, Peter		Ciena Corpo	ration	
Register 1.18 has been allo the change from the base si "1.17 through 1.29 Reserve	tandard where this regist		ble 45-3 should show	Comment Type In Table 45-98a	, the Description	ent Status X for bit 1.2100.15 is	s "Value always 1	
the change from the base si "1.17 through 1.29 Reserver uggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with t make 45.2.1.14b a cross-re	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings iference):	er is reserved: ange in a similar able 45-3 with t	r manner as was done the following three rows	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy	i, the Description i h has "R/W". If wri e no table entries s "R/W" , writes ignored" f	ent Status X for bit 1.2100.15 is ites are ignored, th	s "Value always 1 hen the bit is not h say "writes igno	R/W. ored" where the R/W
the change from the base si "1.17 through 1.29 Reserver uggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with 1 make 45.2.1.14b a cross-re 1.17 Rese	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response	i, the Description i h has "R/W". If wri e no table entries s "R/W" , writes ignored" f	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 whic rom the descriptio	s "Value always 1 hen the bit is not h say "writes igno	R/W. ored" where the R/W
the change from the base si "1.17 through 1.29 Reserver uggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with f make 45.2.1.14b a cross-re 1.17 Rese	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved E-T1 PMA/PMD extende	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows or strikethrough font,	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response	n, the Description in has "R/W". If wri e no table entries s "R/W" , writes ignored" f e Respon	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 which rom the description ase Status O	s "Value always 1 hen the bit is not ch say "writes igno on or change to "F <i>L</i> 47	R/W. ored" where the R/W RO"
the change from the base si "1.17 through 1.29 Reserver uggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with t make 45.2.1.14b a cross-re 1.17 Rese 1.18 BAS 1.19 through 1.29 Reserved	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved E-T1 PMA/PMD extende	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows or strikethrough font,	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response CI 45 SC 45 Anslow, Peter	a, the Description in has "R/W". If write no table entries is "R/W" , writes ignored" free Respon , writes 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 which from the description ase Status O	s "Value always 1 hen the bit is not ch say "writes igno on or change to "F <i>L</i> 47	R/W. ored" where the R/W RO"
the change from the base si "1.17 through 1.29 Reserver SuggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with t make 45.2.1.14b a cross-re 1.17 Rese 1.18 BAS 1.19 through 1.29 Reserved	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved E-T1 PMA/PMD extende d	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows or strikethrough font,	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response CI 45 SC 45 Anslow, Peter Comment Type The first senten or SLAVE confi	a, the Description in has "R/W". If write no table entries is "R/W", writes ignored" for the second	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 which rom the description ise Status O P 26 Ciena Corporent Status X 1 is: "Bit 1.2100.15 anually."	s "Value always 1 hen the bit is not ch say "writes igno on or change to "F <i>L</i> 47 ration 5 returns a one to	ored" where the R/W
the change from the base si "1.17 through 1.29 Reserver suggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with t make 45.2.1.14b a cross-re 1.17 Rese 1.18 BAS 1.19 through 1.29 Reserved	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved E-T1 PMA/PMD extende d	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows or strikethrough font,	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response Cl 45 SC 45 Anslow, Peter Comment Type The first senten or SLAVE confi The second ser	a, the Description in has "R/W". If write no table entries is "R/W", writes ignored" for the second	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 which rom the description ise Status O P 26 Ciena Corporent Status X 1 is: "Bit 1.2100.15 anually."	s "Value always 1 hen the bit is not ch say "writes igno on or change to "F <i>L</i> 47 ration 5 returns a one to	R/W. ored" where the R/W RO" # <u>i-10</u>
the change from the base si "1.17 through 1.29 Reserver SuggestedRemedy Insert a change to Table 45 in IEEE Std 802.3bj-2014. Make the editing instruction "Replace the reserved row f (unchanged rows not showr Add a new Table 45-3 with t make 45.2.1.14b a cross-re 1.17 Rese 1.18 BAS 1.19 through 1.29 Reserved	tandard where this regist d" -3 above the existing cha : for 1.17 through 1.29 in T n):" three rows plus headings ference): erved E-T1 PMA/PMD extende d	er is reserved: ange in a similar ⁻ able 45-3 with t s (no underline c	r manner as was done the following three rows or strikethrough font,	Comment Type In Table 45-98a the R/W column Note - There ar column contain SuggestedRemedy Either remove " Proposed Response CI 45 SC 45 Anslow, Peter Comment Type The first senten or SLAVE confi The second ser always a 1. SuggestedRemedy	a, the Description in has "R/W". If write no table entries is "R/W", writes ignored" for the second	ent Status X for bit 1.2100.15 is ites are ignored, th in Clause 45 which from the description ase Status O P26 Ciena Corporent Ent Status X 1 is: "Bit 1.2100.15 anually." hat case," which d	s "Value always 1 hen the bit is not ch say "writes igno on or change to "F <i>L</i> 47 ration 5 returns a one to	R/W. ored" where the R/W RO" # [<u>i-10</u>

C/ **45** SC **45.2.1.131.1**

C/ 45 SC 45.2.1.	131.2 P 26	L 52	# i-11	C/ 96 SC 96.1	P 28	L 40	# i-5
Anslow, Peter	Ciena Corpora	ation		Marris, Arthur	Cadence Des	sign Syst	
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
operation if MASTEF This doesn't make so SuggestedRemedy	45.2.1.131.2 is: "Bit 1.2100.14 R-SLAVE manual config enable ense because bit 1.2100.15 is a	bit 1.2100.15 is Iways one.	set to one."	Sublayer and type P sublayers comprise	the 100BASE-T1 PHY type, op hysical Medium Attachment su the 100BASE-T1 Physical laye	blayer. Together r."	
	SLAVE manual config enable bi	t 1.2100.15 is s	et to one".	The RS is included i	n the Physical layer (but not the	e PHY)>	
Proposed Response	Response Status O			SuggestedRemedy			
Cl 45 SC 45.2.1. Scantamburlo, Nicola Comment Type G	132 P 27 Canova Tech Comment Status X	L 23	# [i-13	Sublayer and type P sublayers comprise To:	the 100BASE-T1 PHY type, op hysical Medium Attachment su the 100BASE-T1 Physical laye the PCS and PMA sublayers of	blayer. Together r."	, the PCS and the PMA
Typo in register num				Proposed Response	Response Status O		
SuggestedRemedy Written Register 1.2	101.12:0, should be 1.2102.12:0)					// \
Proposed Response	Response Status O			C/ 96 SC 96.1 Law, David	P 29 Hewlett-Pack	<i>L</i> 24 ard Ltd	# <u>i-57</u>
				Comment Type TR	Comment Status X		
Cl 96 SC 96.1 Marris, Arthur Comment Type T	P 28 Cadence Desi Comment Status X	L 35 ign Syst	# [<u>i-4</u>	block yet the PMA S not support this. Fur	al is shown crossing the PMA s ervice Interface defined in 96.2 ther the PHY CONTROL state e (see page 62, line 1).	2.2, and illustrate	d in Figure 96-3, does
There is no need to s	say MII is optional			SuggestedRemedy			
SuggestedRemedy Delete "* MII is optio	nal for 100 Mb/s systems."			[1] Remove the TX_ [2] If tx_enable is red	EN connection to PHY CONTR quired by PHT CONTROL, upda a primitive to signal tx_enable a	ated the PMA Se	rvice Interface defined
Proposed Response	Response Status O			update in Figure 96-	2 and 96-14 accordingly.		
				Proposed Response	Response Status 0		

C/ 96 SC 96.1

C/ 96 SC 96.1	P 29	L 3	# i-56	C/ 96	SC 96.1.2	P 31	L 1	# i-20
₋aw, David	Hewlett-Pack	ard Ltd		Law, David	ł	Hewlett-Pac	kard Ltd	
reference to Clause 2 SuggestedRemedy	Comment Status X endent Interface should be dea 8 where it is defined should b to designate the Technology	e added.		own su	efinition of the n ubclause headin dence over text.	Comment Status X otation, service and timer sp ng. In addition there is no sta		
	echnology Dependent Interfac					use 96.1.2 as follows:		
Proposed Response	Response Status 0			96.1.2	'Conventions in	h this clause'.		
C/ 96 SC 96.1.1.2 Hajduczenia, Marek	P 30 Bright House	L 36	# [i-2	consta	ints, and function	se contains state diagrams, i ons. Should there be a discre tate diagram prevails.		
Comment Type E	Comment Status X the word "management" in lir			Diagra	m Notation'.	name existing subclause 96.		
SuggestedRemedy Remove the said und	erline			'96.1.2	2.3 'Service spe			·
Proposed Response	Response Status 0			[4] Rer '96.1.2	number, reorde 2.2 'State Diagra	r and rename existing subcla am Timer specification'.	ause 96.1.4 'Time	er specification' to be
				Proposed	Response	Response Status O		
				C/ 96 Law, David	SC 96.2.2	P 33 Hewlett-Pac	L 2 skard Ltd	# [i-58
					51	<i>Comment Status</i> X which is an overview, placed a gnals.	after Figure 96-2,	which is the more
				Suggested Swap t	-	ure 96-3 and Figure 96-2.		

C/ 96 SC 96.2.2

C/ 96 SC 96.3 P 38 L 19 .aw, David Hewlett-Packard Ltd	# i-60	C/ 96 SC 96.3.2.1 P 39 L 5 # i-62 Law. David Hewlett-Packard Ltd Hewlett-Pa
Comment Type E Comment Status X The block is labelled 'PCS DATA TRANSMIT ENABLE' yet subclause 9 data transmission enable'. SuggestedRemedy	6.3.2.1 is 'PCS	Comment Type E Comment Status X The title of subclause 96.3.2.1 'PCS data transmission enable' yet on this line the reference is to ' the PCS data transmission enabling' and the name of the state diagram is 'PCS data transmission enabling state diagram'.
Suggest that these should match. Proposed Response Response Status O		SuggestedRemedy Consistently use either 'transmission enable' or 'transmission enabling'. Proposed Response Response Status O
I 96 SC 96.3 P 38 L 20 aw, David Hewlett-Packard Ltd omment Type T Comment Status X	# [i-59	C/ 96 SC 96.3.2.1.1 P 39 L 47 # [i-17] Zhang, Jin Marvell Semiconducto
pcs_reset is missing as an input to the PCS TRANSMIT ENABLE block SuggestedRemedy Add pcs_reset as an input. Proposed Response Response Status O		Comment Type T Comment Status X The definition of tx_error_mii is counter-intuitive. False - errored transmission, True- No error. It also contradicts the definition of TX_ER, where 1 means error, 0 means no error. SuggestedRemedy False: no error. True: error transmission.
7 96 SC 96.3 P 38 L 37 aw. David Hewlett-Packard Ltd	# [i-61	Proposed Response Response Status O
Comment Type E Comment Status X There should be a vertical dashed line to designate the Media Independ there is for the PMA Service interface. SuggestedRemedy See comment.	lent In-terface as	Cl 96 SC 96.3.2.11 P 39 L 48 # i-18 Wu, Peter Marvell Semiconducto Image: Comment Type GR Comment Status X FALSE and TRUE descriptions are inverted. SuggestedRemedy Image: Comment Status X Image: Comment Status X The tx_error_mii variable is generated in the PCS data transmission enabling Image: Comment Status X Image: Comment Status X
roposed Response Response Status O		State diagram as specified in Figure 96-5. When this variable is set to FALSE it indicates a non-errored transmission, when set to TRUE it indicates an errored transmission. Proposed Response Response Status O

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/ 96 SC 96.3.2.11 Page 7 of 16 17/05/2015 05:32:15

C/ 96 SC 96.3.2.2 P 39 L 4 # i-63	C/ 96 SC 96.3.2.3	P 42 L 19	# i-66
aw, David Hewlett-Packard Ltd	Law, David	Hewlett-Packard Ltd	
Comment Type E Comment Status X According to figure 96-4 the 4B/3B conversion function is part of the PCS TRANSMIT since	This text, and the following su	nment Status X bclauses, only relates to the state c	
this has TXD<3:0>, tx_error_mii and tx_enable_mii as inputs. Since subclause 96.3.2.3 is the PCS Transmit subclause, suggest that the 4B/3B subclause 96.3.2.2, and its subclauses, should be moved under 96.3.2.3.	SuggestedRemedy	art of the PCS transmit (see my pre	vious comment).
SuggestedRemedy		'PCS Transmit state diagram'.	
 Insert new heading 96.3.3 PCS Transmit to match block in Figure 96-4. Renumber 96.3.2.2 to 96.3.3.1 as the first subclause (function) of the PCS transmit. Renumber remaining subclauses. 	Proposed Response Resp	oonse Status O	
Proposed Response Response Status O	Cl 96 SC 96.3.2.3.1 Law, David	P 43 L 11 Hewlett-Packard Ltd	# <u>i-68</u>
C/ 96 SC 96.3.2.2.2 P 40 L 30 # [i-64		nment Status X t is not used in the transmit state di	agrams.
Law, David Hewlett-Packard Ltd	SuggestedRemedy		-
Comment Type E Comment Status X	See comment.		
Suggest ' shall be discarded at the receiver side upon' should read ' shall be discarded at the receiver upon'.	Proposed Response Resp	oonse Status O	
SuggestedRemedy			
See comment.	C/ 96 SC 96.3.2.3.1	P 43 L 50	# i-69
Proposed Response Response Status O	Law, David	Hewlett-Packard Ltd	
		nment Status X	
Cl 96 SC 96.3.2.2.2 P 40 L 30 # [i-65	_, _	riable as it is not used in the transm	hit state diagrams.
Law, David Hewlett-Packard Ltd	SuggestedRemedy See comment.		
Comment Type T Comment Status X		Cisture C	
It seems odd to include a shall statement in respect to the receiver in the transmit PCS section.	Proposed Response Resp	oonse Status O	
SuggestedRemedy	C/ 96 SC 96.3.2.3.1	P43 L8	# i-67
Suggest ' shall be discarded at the receiver side upon' should read ' will be discarded at the receiver upon'.	Law, David	Hewlett-Packard Ltd	
Proposed Response Response Status O	· · · · · · · · · · · · · · · · · · ·	nment Status X t is not used in the transmit state di	agrams.
	SuggestedRemedy See comment.		
	Proposed Response Resp	oonse Status O	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/96Page 8 of 16COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC96.32.3.117/05/2015 05:32:15SORT ORDER: Clause, Subclause, page, lineSC96.32.3.117/05/2015 05:32:1517/05/2015 05:32:15

Cl 96 SC 96.3.2.4 P 45 L 34 # [i-70	C/ 96 SC 96.3.2.4 P 46 L 4 # i-73
aw, David Hewlett-Packard Ltd	Law, David Hewlett-Packard Ltd
Comment Type T Comment Status X	Comment Type T Comment Status X
The text states that 'The reference diagram of PCS transmit symbol mapping is indicated in Figure 96-8.' however the figure shown in Figure 96-8 is much broader that just PCS transmit symbol mapping, for example the 4B/3B conversion block is shown, and one of the blocks itself is labled 'SYMBOL MAPPING'.	Based on the equations in subclause 96.3.2.4.6 'Generation of (TAn, TBn) when tx_mod = SEND_I', 96.3.2.4.7 'Generation of (TAn, TBn) when tx_mode = SEND_N, tx_enable = and 96.3.2.4.8 'Generation of (TAn, TBn) for idle sequence when tx_mode=SEND_N' all using tx_mode as an input, add both tx_mode and tx_enable as an inputs to the block 'SYMBOL MAPPING'.
SuggestedRemedy	SuggestedRemedy
Suggest text be changed to read ' 'The reference diagram of PCS transmit is shown in 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'.
Proposed Response Response Status O	Proposed Response Response Status O
C/ 96 SC 96.3.2.4 P 46 L 15 # [i-71 .aw, David Hewlett-Packard Ltd	C/ 96 SC 96.3.2.4 P 46 L 8 # [i-75 Law, David Hewlett-Packard Ltd
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler.	Comment Type T Comment Status X It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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>.
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler.	It is not clear how the PCS transmit state diagram fits within the figure. As an example i the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0>
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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>.
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'.	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Proposed Response Response Status O C/ 96 SC 96.3.2.4 P 46 L 3 # i-72 aw, David Hewlett-Packard Ltd	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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 Show where the PCS transmit state diagram fits within this figure.
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 3 # i-72 Law, David Hewlett-Packard Ltd Comment Type E Comment Status X	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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 Show where the PCS transmit state diagram fits within this figure. Proposed Response Response Status O C/ 96 SC 96.3.2.4 P 46 L 8 # i-74
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 3 # i-72 aw, David Hewlett-Packard Ltd Comment Type E Comment Status X Please label the signals from the block 'SYMBOL MAPPING' to the block '2D to 1D'. SuggestedRemedy	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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 Show where the PCS transmit state diagram fits within this figure. Proposed Response Response Status O C/ 96 SC 96.3.2.4 P46 L8 # i-74 Law, David Hewlett-Packard Ltd
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 3 # i-72 aw, David Hewlett-Packard Ltd Comment Type E Comment Status X Please label the signals from the block 'SYMBOL MAPPING' to the block '2D to 1D'. SuggestedRemedy See comment.	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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 Show where the PCS transmit state diagram fits within this figure. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 8 # i-74 Law, David Hewlett-Packard Ltd Comment Type T Comment Status X Based on the equations in subclause 96.3.2.4.4 using both tx_enable and loc_rcvr_statt as inputs, these need to be added as inputs to the 'DATA SCRAMBLER' block. SuggestedRemedy
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler. SuggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 3 # [i-72 _aw, David Hewlett-Packard Ltd Comment Type E Comment Status X Please label the signals from the block 'SYMBOL MAPPING' to the block '2D to 1D'. SuggestedRemedy See comment.	It is not clear how the PCS transmit state diagram fits within the figure. As an example i 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 Show where the PCS transmit state diagram fits within this figure. Proposed Response Response Status O Cl 96 SC 96.3.2.4 P 46 L 8 # i-74 Law, David Hewlett-Packard Ltd Comment Type T Comment Status X Based on the equations in subclause 96.3.2.4.4 using both tx_enable and loc_rcvr_statt as inputs, these need to be added as inputs to the 'DATA SCRAMBLER' block.

C/ 96 SC 96.3.2.4 Page 9 of 16 17/05/2015 05:32:15

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 50 L 3 # i-25 Law, David Hewlett-Packard Ltd Hewlett
Comment Type T Comment Status X 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 Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Proposed Response Response Status O	Comment Type TR Comment Status X The variable 'JBstate' is generated based on the JAB state diagram state and its only use is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate = JAB' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE in the JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB', however the variable is never used. I suggest that it is clearer to use a variable set in the JAB state diagram to control the
Cl 96 SC 96.3.3.1 P 50 L 15 # i-37 Mcclellan, Brett Marvell Semiconducto Marvell Semiconducto Comment Type E Comment Status X 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. Figure 100 (100 (100 (100 (100 (100 (100 (100	Receive state diagram, rather than variable that is generated in text. SuggestedRemedy Delete the 'JBstate' variable definition. Change 'JBstate = JAB' on the open arrow to the IDLE state in the Receive state diagram to read 'rcv_jab_detected = TRUE'. Proposed Response Response Status O
SuggestedRemedy Change the figures such that each transition has it's own entrance to a state	C/ 96 SC 96.3.3.1 P 50 L 39 # i-27 Law, David Hewlett-Packard Ltd Hewlett-P
Proposed Response Response Status O	Comment Type E Comment Status X Typo
C/ 96 SC 96.3.3.1 P 50 L 21 # [i-26] Law, David Hewlett-Packard Ltd Hewlett-Packard Ltd Comment Type TR Comment Status X The variable 'mii fc err' is set TRUE in the 'BAD SSD' state of the 'PCS Receive state	SuggestedRemedyReceiving' should read 'receiving' in state 'SSD'.Proposed ResponseResponse Status O
diagram', set FALSE elsewhere, but is never used. Further, a false carrier error is already correctly signalled across the MII through the use of 'pcs_rx_er = TRUE' and 'pcs_rx_dv = FALSE' in the 'BAD SSD' state.	C/ 96 SC 96.3.3.1 P 52 L 20 # [i-24] Law, David Hewlett-Packard Ltd Hewlett
SuggestedRemedy Delete the 'mii_fc_err' variable and remove from the 'BAD SSD' and 'IDLE' states of the 'PCS Receive state diagram'. Proposed Response Response Status O	Comment Type E Comment Status X Please remove the bolding of 'receiving = TRUE + rcv_max_timer_done = TRUE'. SuggestedRemedy See comment.
	Proposed Response Response Status O

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/ 96 SC 96.3.3.1 Page 10 of 16 17/05/2015 05:32:15

C/ 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Packar	<i>L</i> 26 d Ltd	# i-43	<i>Cl</i> 96 Law, David	SC 96.3.3.1	P 52 Hewlett-Pac	<i>L</i> 27 kard Ltd	# i-42
Comment Type E If this is a note, please	Comment Status X use the correct formatting for a	a note.		Comment T Sugges requirer	reword withou	Comment Status X the use if shall statement	as state diagram	contains the normative
SuggestedRemedy See comment.				SuggestedF	lemedy			
Proposed Response	Response Status O			decodin	g.'.	all do DATA decoding.' be	changed to read	that perform DATA
				Proposed R	esponse	Response Status 0		
C/ 96 SC 96.3.3.1 _aw, David	P 52 Hewlett-Packar	L 26 d Ltd	# i-39	C/ 96	SC 96.3.3.1	P 52	L 28	# i-44
Comment Type E	Comment Status X			Law, David		Hewlett-Pac		
Туро.				Comment T	/pe E	Comment Status X		
SuggestedRemedy				Sugges	ed rewording o	f the second sentence of th	ie note.	
Suggest that ' before	DATA state;' should read ' b	efore the DAT	rA state;'.	SuggestedF	emedy			
Proposed Response	Response Status O			data flu		d sentence of the note be o is the same as the flush-ou		
C/ 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Packar	<i>L</i> 26 d Ltd	# i-40	Proposed R	esponse	Response Status O		
Comment Type E Typo.	Comment Status X			C/ 96 Law, David	SC 96.3.3.1	P 52 Hewlett-Pac	L 32	# <u>i-45</u>
SuggestedRemedy					<i>(</i> no F	Comment Status X		
Suggest that ' there a	re total of' should read ' th	ere are a tota	al of'.	Comment T		nctions and timers defined f	for these state dia	agrams
Proposed Response	Response Status O			SuggestedF				29.4.1.01
C/ 96 SC 96.3.3.1	P 52	L 27	# i-41	Change		ate variables in Figure' to	o read 'The varial	bles, functions and
_aw, David	Hewlett-Packar		<i>"</i>	Proposed R	esponse	Response Status O		
Comment Type E Typo.	Comment Status X							
SuggestedRemedy								
Suggest that ' states I	before IDLE state (including D including the DATA state)'.	ATA state)	should read ' states					
Proposed Response	Response Status O							
TVDE: TP/tachnical require	d ER/editorial required GR/ge		d T/tochnical E/aditorial G	deperal		C/ S		Page 11 of 1

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 96 SC 96.3.3.1 Page 11 of 16 17/05/2015 05:32:15

			"			D = 0 / 1	
Cl 96 SC 96.3.: Law, David	5.1 P 52 Hewlett-Pack	L7	# i-22	C/ 96 SC 96.3.3 Law, David		P 53 L 7 ewlett-Packard Ltd	7 # i-32
Comment Type T Subclause 96.1.4 ^{tr} described in 40.4.5 the value zero will I rcv_max_timer_dou Further, the rcv_ma rcv_max_timer', so rcv_max_timer_dou	Comment Status X Timer specification' states that '/ 2.'. Based on this there is no de have, and regardless, the state of	All timers operate efinition for what diagram only eve AB' state, the act its reference to 1 Based on this I o	assigning a timer with er tests the value of ion 'start 14.2.3.2, the variable	Comment Type T	Comment Stat	tus X 3:0>, RX_DV and R 96-10b or Figure 96	X_ER since these variables are S-11.
 SuggestedRemedy	cv_max_timer <= 0' in the state			C/ 96 SC 96.3.3 Law, David	He	P 53 L : ewlett-Packard Ltd	36 # <u>i-21</u>
Proposed Response	Response Status O	<i>L</i> 1	# [i-19		oclause 96.3.3.1 is th	ion is as specified in the 'PCS Receive ov	n 96.3.3.1.'. Is this the correct erview' whereas subclause
Wu, Peter Comment Type G	Marvell Sem	-	# [-19	SuggestedRemedy Change the cross-re it doesn't seem parti			natively delete this sentence as
31	Response Status O	first line letters a	are not fully shown	Proposed Response	Response Stati		
C/ 96 SC 96.3.3	3.1.1 P 52 Hewlett-Pack	<i>L</i> 36 kard Ltd	# i-23				
	Comment Status X ariable definitions as found in s elsewhere in the draft.	ubclause 40.4.5.	1 'State diagram				
SuggestedRemedy See comment.							
Proposed Response	Response Status O						

C/ 96 SC 96.3.3.1.2

Cl 96 SC 96.3.3.1.4 P 53 L 43 # i-33 Law, David Hewlett-Packard Ltd Hewl	C/ 96 SC 96.4 P 56 L 4 # i-54 Law. David Hewlett-Packard Ltd			
Comment Type TR Comment Status X 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	Law, David Hewlett-Packard Ltd Comment Type E Comment Status X Suggest reword of the text 'The PMA provides full duplex communications employing to and from medium using'. SuggestedRemedy Suggest the text 'The PMA provides full duplex communications employing to and from medium using 3-level' be changed to read 'The PMA provides full duplex communications to and from medium employing 3-level'. Proposed Response Response Status O			
 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. Proposed Response Response Status O 	C/ 96 SC 96.4.1 P 56 L 12 # [-55] Law, David Hewlett-Packard Ltd Hewlett-Packard Ltd Image: Comment Type T Comment Status X 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 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 the laws exceptional LPI'. The definition of power_on in subclause 40.4.2.1 will be followed without any exceptional LPI'. The definition of power_on in subclause 40.4.2.1 will be followed without any exceptional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 I don't see any reference to 'optional LPI'. The definition of power_on in subclause 40.4.2.1 will be followed without any exceptions.			
C/ 96 SC 96.3.3.2 P 54 L 1 # i-46 Law, David Hewlett-Packard Ltd Hewlett-Packard Ltd Comment Type T Comment Status X 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>,	 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 tha 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.'. 			

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 rx_error.' Should be changed to read '... generate signals rx_data<2:0>, pcs_rx_dv, and pcs_rx_error.'.

Proposed Response Response Status **O**

Proposed Response Response Status **0**

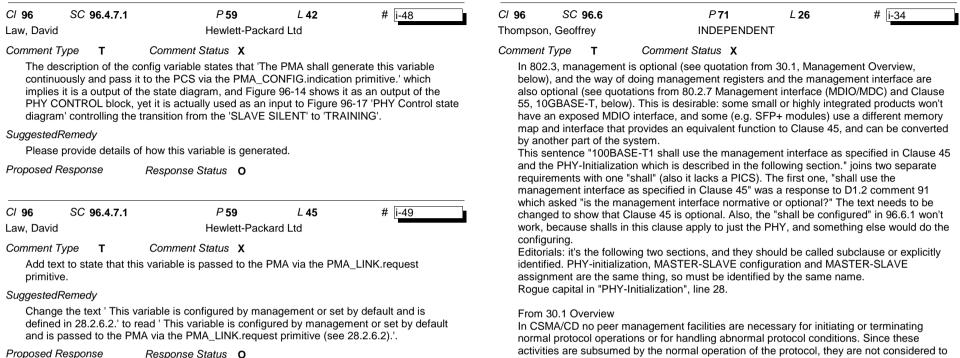
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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	P58 L15 ewlett-Packard Ltd	# i-50	C/ 96 SC 96.4.3 Law, David	P 58 Hewlett-Pa	L 37	# <u>i-52</u>
Comment Type T Comment Sta			Comment Type E	Comment Status X		
The text reads 'PHY Control config sets separate variables, see subclause 96.4. read 'PHY Control sets tx_mode to' as SEND_I and SEND_Z described, not co need updated to show the connection of	7.1 for their definitions. I believes it is tx_mode that can take the onlig. Based on this Figure 96-	ve this text should ne values SEND_N, 14 and 96-25 both	states 'The paramete of the receive link at t	I generate loc_rcvr_status (r loc_rcvr_status is generate he local PHY.'. The parenth ovides an explanation of wh	ed by PMA Receivent	e to indicate the status edundant as the
SuggestedRemedy [1] Change the text 'PHY Control config sets tx_mode to' to read 'PHY Control sets tx_mode to'.				ral status of local receiver)'.		
			Proposed Response Response Status O			
[2] In Figure 96-14 add a connection of t	_	IIT block.	C/ 96 SC 96.4.3	P 58	L 39	# i-53
[3] In Figure 96-15 add a input arrow lab	oled tx_mode.		Law, David	Hewlett-Pa	ackard Ltd	
Proposed Response Response Status O		Comment Type E	Comment Status X			
				onveys the information' is		
aw, David He omment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode .	dicates MASTER mode then the ocal clock source. When '. It is the parameter config c		describe what inform detail. SuggestedRemedy	onveys the information' is ation, whether the status of aveys the information'. <i>Response Status</i> O		
aw, David He <i>omment Type</i> T <i>Comment Sta</i> The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . primitive PMA_CONFIG that can take the	ewlett-Packard Ltd <i>tus</i> X dicates MASTER mode then th ocal clock source. When '. It is the parameter config c	ne PMA Transmit	describe what informa detail. SuggestedRemedy Delete the text ' cor	ation, whether the status of newsys the information'.		
aw, David He omment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . primitive PMA_CONFIG that can take the uggestedRemedy	ewlett-Packard Ltd htus X dicates MASTER mode then th bocal clock source. When '. It is the parameter config c he vales MASTER or SLAVE.	ne PMA Transmit ontained in the	describe what informa detail. SuggestedRemedy Delete the text ' cor Proposed Response	ation, whether the status of nveys the information'. <i>Response Status</i> O	the overall received	d link is ok or not, in
aw, David He omment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode. primitive PMA_CONFIG that can take the uggestedRemedy Suggest that text 'When PMA_CONFIG Function derives the TX_TCLK from a lo	ewlett-Packard Ltd <i>itus</i> X dicates MASTER mode then the bocal clock source. When '. It is the parameter config c he vales MASTER or SLAVE. indicates MASTER mode ther bocal clock source. When	ne PMA Transmit ontained in the n the PMA Transmit	describe what informa detail. SuggestedRemedy Delete the text ' cor Proposed Response Cl 96 SC 96.4.4	ation, whether the status of weys the information'. <i>Response Status</i> O	the overall received	d link is ok or not, in
aw, David He omment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . primitive PMA_CONFIG that can take the uggestedRemedy Suggest that text 'When PMA_CONFIG Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . in the PMA_CONFIG primitive indicates	ewlett-Packard Ltd <i>itus</i> X dicates MASTER mode then the boal clock source. When '. It is the parameter config c he vales MASTER or SLAVE. indicates MASTER mode ther boal clock source. When ' be changed to read 'When the MASTER mode, the PMA Tra	he PMA Transmit ontained in the In the PMA Transmit the config parameter Insmit Function	describe what informa detail. SuggestedRemedy Delete the text ' cor Proposed Response Cl 96 SC 96.4.4 Law, David Comment Type E Suggest reword of tex	ation, whether the status of nveys the information'. <i>Response Status</i> O <i>P</i> 59 Hewlett-Pa	<i>L</i> 21 ackard Ltd operate at 100Mb/	d link is ok or not, in # [<u>i-47</u>
aw, David He Comment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . primitive PMA_CONFIG that can take the Suggest edRemedy Suggest that text 'When PMA_CONFIG Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode .	ewlett-Packard Ltd <i>itus</i> X dicates MASTER mode then the boal clock source. When '. It is the parameter config c ne vales MASTER or SLAVE. indicates MASTER mode ther boal clock source. When ' be changed to read 'When the MASTER mode, the PMA Transistory of the there is source. When the config para	he PMA Transmit ontained in the In the PMA Transmit the config parameter Insmit Function	describe what informa detail. SuggestedRemedy Delete the text ' cor Proposed Response Cl 96 SC 96.4.4 Law, David Comment Type E Suggest reword of tex	ation, whether the status of nveys the information'. <i>Response Status</i> O <i>P</i> 59 Hewlett-Pa <i>Comment Status</i> X tt as 100BASE-T1 can only	<i>L</i> 21 ackard Ltd operate at 100Mb/	d link is ok or not, in # <u>i-47</u>
Law, David He Comment Type T Comment Sta The text reads 'When PMA_CONFIG ind Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . primitive PMA_CONFIG that can take the Suggest edRemedy Suggest that text 'When PMA_CONFIG Function derives the TX_TCLK from a lo PMA_CONFIG indicates SLAVE mode . in the PMA_CONFIG primitive indicates derives the TX_TCLK from a local clock	ewlett-Packard Ltd <i>itus</i> X dicates MASTER mode then the boal clock source. When '. It is the parameter config c he vales MASTER or SLAVE. indicates MASTER mode ther boal clock source. When ' be changed to read 'When the MASTER mode, the PMA Transistory source. When the config para 'E mode'.	he PMA Transmit ontained in the In the PMA Transmit the config parameter Insmit Function	describe what informa detail. SuggestedRemedy Delete the text ' cor Proposed Response Cl 96 SC 96.4.4 Law, David Comment Type E Suggest reword of tex link comes up does n SuggestedRemedy Suggest the text ' th frames are exchange	ation, whether the status of nveys the information'. <i>Response Status</i> O <i>P</i> 59 Hewlett-Pa <i>Comment Status</i> X tt as 100BASE-T1 can only	<i>L</i> 21 <i>L</i> 21 ackard Ltd operate at 100Mb/ nanged.	# [<u>i-47</u> s, and just because a on in 100Mb/s when ead ' the PHY into

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

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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

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SORT ORDER: Clause, Subclause, page, line

the MDIO (Clause 45)...

SuggestedRemedy

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 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]

Add PICS for "A method for configuring a PHY as MASTER or SLAVE shall be provided."

Proposed Response Response Status **O**

CI 96 SC 96.6