C/ 96 SC 96.2.1.1 Ran, Adee	P 32 Intel	L 26	# [1]	C/ 96 SC 96.3.2.2 Ran, Adee	2.1 P 41 Intel	L 8	# 3	
Comment Type ER Commen Extra period at end of line SuggestedRemedy	nt Status A			Comment Type ER Although "Could be" i "is" or "may".	Comment Status A s not addressed by the style	manual, it is unus	ual. We typically use	
Use one.				Rephrase for clarity.				
Response Response ACCEPT.	e Status W			SuggestedRemedy Change				
Use commentors suggested remed	ły.				om local crystal or oscillator if			
C/ 96 SC 96.3.2.2.1 Ran, Adee	P 41 Intel	L 3	# 2	 or from recovered clock if it is in SLAVE mode. The pcs_txclk could be derived from same clock source as TX_CLK; however, with proper clock division factor to get to required frequency." 				
Comment Type ER Comme	nt Status A			to				
The contents of this subclause doe SuggestedRemedy Change to an appropriate title or cl			match the title.	from recovered clock	ived from a local crystal or os in SLAVE mode. The pcs_txo /ith proper clock division facto	clk is derived from	the same clock	
Response Respons ACCEPT IN PRINCIPLE.	e Status W			Response ACCEPT IN PRINCIF	Response Status W			
Change title from				Change				
"4B3B conversion for control signa to "Control signals in 4B/3B conversio				or from recovered clo	om local crystal or oscillator if ck if it is in SLAVE mode. The s TX_CLK; however, with prop	e pcs_txclk could	be derived from the	
				to				
				"TX_TCLK shall be d	erived from a local source in I	MASTER mode. 1	X_TCLK shall be	

"TX_TCLK shall be derived from a local source in MASTER mode. TX_TCLK shall be derived from the recovered clock in SLAVE mode. The pcs_txclk is derived from the same clock source as TX_TCLK, with proper clock division factor to get to the required frequency."

<i>Cl</i> 96 <i>SC</i> 96.3. Ran, Adee		P 41 Intel	L 18	# 4	C/ 96 Ran, Adee	SC 96.3.2.3	P 41 Intel	L 28	# 6
Comment Type ER "could" should be "	<i>Comment S</i> may" here.	tatus A				pears in plain te	Comment Status A ext here, but elsewhere it is i	italicized with "n" a	as a subscript. Be
SuggestedRemedy replace. Response ACCEPT IN PRINC See response to co		tatus W			Response	Remedy	o subscript, three times in th <i>Response Status</i> W E.	his paragraph and	possibly elsewhere.
·					See res	sponse to comm	ient #433.		
Cl 96 SC 96.3. Ran, Adee		P 41 Intel	L 22	# 5	C/ 96 Ran, Adee	SC 96.3.2.3	P 41 Intel	L 38	# 7
Comment Type ER Subclause shares	Comment S ts title with its pare				Comment 7 Describ		Comment Status A other PHYs is not neccesar	у.	
SuggestedRemedy Rename somehow						ded normative s	tatements (especially when e is normative).	referring to other	clauses, but also here,
Response ACCEPT IN PRING	Response Si CIPLE.	tatus w			<i>Suggestedl</i> Consid	R <i>emedy</i> er deleting the t	ext		
Change "96.3.2 PCS transr to "96.3.2 PCS transr					TX_ER not use	assertion occur	r 1000BASE-T where symborence, 100BASE-T1 only has a symbols. Therefore, rathered,"	as one special syr	nbol pair (0, 0) that is
Change "96.3.2.3 PCS tran	smit function"				If this te	ext is not delete	d, Change "shall be exclusiv	ely" to "are exclus	sively".
to "96.3.2.3 PCS Trai	nsmit Overview".				Change	e "shall be trans	mitted" to "are to be transmi	tted".	
Change "96.3.3 PCS Recei to					Response ACCEF	PT IN PRINCIPL	Response Status W E.		
"96.3.3 PCS Recei	ve Function"				See res	sponse to comm	ent #291.		

2/ 96 Ran, Adee	SC 96.3.2.3.1	P 44 Intel	L 9	# 8	C/ 96 SC 9 Ran, Adee	96.3.2.4.6	P 47 Intel	L 11	# 11
Comment T Refer to		Comment Status A	d in ESD2, ESD	3.	<i>Comment Type</i> Rephrase para		Comment Status A rrectness.		
<i>SuggestedF</i> Change	Remedy 96.3.2 to 96.3.2	.4.5.			The table is co appear in this		e (0, 0) ternary pairs is n	ot used in this m	node, it should not
esponse ACCEP		Response Status W			SuggestedRemed Change "The to encode SSI	SSD/ESD ter	nary pairs are not used for re not used during trainin	or training" to "T g".	he ternary pairs used
Use cor	mmentors sugge	sted remedy.			Delete the "us	ed for SSD/E	SD" line from the table.		
2/ 96 an, Adee	SC 96.3.2.3.1	P 44 Intel	L 18	# 9	Response ACCEPT.	R	esponse Status W		
Comment T Refer to	• •	Comment Status A oclause (96.3.2.4.8)			Use comment	ors suggeste	d remedy.		
<i>SuggestedF</i> Change	Remedy 96.3.2 to 96.3.2	.4.8.			C/ 96 SC 9 Ran, Adee	96.3.3.1	P 51 Intel	L 1	# 12
esponse ACCEP	ΥТ.	Response Status W			<i>Comment Type</i> Text in Figure		Comment Status A adable even on a large m	onitor.	
Use cor	mmentors sugge	sted remedy.			SuggestedRemed		diagram if necessary.		
7 96 an, Adee	SC 96.3.2.4.2	P 47 Intel	L 8	# 10	Response ACCEPT.	-	esponse Status W		
Comment T	<i>ype</i> ER h" is unsuitable h	Comment Status A			See response	to comment	#326.		
	ragraph also rela	ites to the next subclause (g this subclause.	eneration of SC	_n[2:0]). Only the next					
uggestedF									
Conside	er merging this s	ubclause with 96.3.2.4.3.							
esponse ACCEP	T IN PRINCIPLE	Response Status W							
Remove	e "as such".								
Reject:	merging this sub	clause with 96.3.2.4.3.							

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 9 Ran, Adee	96.3.2.4.10	P 50 Intel	L 22	# 13	Cl 96 SC 96.3.3.1.2 P 53 L 40 # 1 Ran, Adee Intel	4
Comment Type	ER Com	nment Status A			Comment Type ER Comment Status A	
"2-D ternary pair of ternary		This thing is defined	as a "code-group	o", or alternatively it is a	Most if not all groups of 6 ternary symbols (or 3 code-groups) will _contain_ sym corresponding to the idle mode.	bols
	o 96.3.3.1.2 too.				The discrimination should be made according to symbols that are allowed only in mode.	n data
	-					
Change "2-D t	ternary pair" nere	e to "code-groups".			Also, refer to the specific subclause.	
	ternary symbols"	to "code-groups" three	ee times in the de	efinition of check_idle	SuggestedRemedy	
(96.3.3.1.2)					Change	
Response ACCEPT.	Resp	oonse Status W			"indicating whether the six consecutive 2-D ternary symbols after de-interleaving rx_symb_vectors contain symbols corresponding to the idle mode encoding or n specified in 96.3.2"	
					to	
					"indicating whether or not all six consecutive code-groups after de-interleaving rx_symb_vectors are valid in idle mode encoding"	
					or (inverted logic): "indicating whether or not the six consecutive code-groups after de-interleaving rx_symb_vectors contain symbols that are invalid in idle mode encoding".	
					Refer to 96.3.2.4.5.	
					Response Response Status W	
					ACCEPT IN PRINCIPLE.	
					Change "indicating whether the six consecutive 2-D ternary symbols after de-interleaving rx_symb_vectors contain symbols corresponding to the idle mode encoding or n specified in 96.3.2"	
					to	
					"indicating whether or not all six consecutive code-groups after de-interleaving rx symb vectors are valid in idle mode encoding, as specified in 96.3.2.4.5."	

C/ 96 SC 96.3.3.4 P 54 L 42 # 15	C/ 96 SC 96.3.3.4 P 55 L 1 # 16
Ran, Adee Intel Comment Type ER Comment Status A "half-duplex" and "full duplex" are not defined anywhere, and are only used here. This paragraph is not clear at all. SuggestedRemedy SuggestedRemedy Rewrite this paragraph using well-defined terms. Response Response Status W ACCEPT IN PRINCIPLE. Change: "Given the two-step link up process for 100BASE-T1 PHYs, a half-duplex step and a full duplex step, polarity detection and correction can be done simultaneously at the earliest stage. Link up starts with the half duplex step when only the MASTER PHY sends symbols to the SLAVE PHY. During this initial stage, all hand-shaking signal status, such as rem_rcvr_status, shall be known as FALSE. With this a priori knowledge, polarity should be accurately detected by the	Ran, Adee Intel Comment Type ER Comment Status A "shall" and "could" should be avoided here. pcs_rxclk frequency stated here is only the nominal value. This value should not be used in a normative statement. SuggestedRemedy Change "shall be" to "are". Change the first "could be" to "may be". Change the second "could be" to "may be". Delete the frequency value. Possibly, specify the division factor from RX_CLK instead. Response Response Status ACCEPT.
SLAVE side during the half duplex step. If a polarity flip is detected, the SLAVE changes the sign of its received signals (RAn, RBn) to correct the polarity. Furthermore, it also changes the sign of its transmitted signals (TAn, TBn). When the SLAVE PHY starts sending symbols to the MASTER PHY during the full duplex step, since polarity correction has been taken care of by the SLAVE PHY, the polarity would always be observed as correct by the MASTER PHY."	Cl 96 SC 96.3.3.1.1 P 53 L 31 # 17 Ran, Adee Intel Comment Type ER Comment Status A The nominal frequency of pcs_rxclk should appear somewhere else, explicitly, stated as a frequency, not in the definition of a variable. Intel
to: "Polarity detection and correction can be done simultaneously at the earliest link up stages. Link up starts with the MASTER PHY sending symbols to the SLAVE PHY. During this initial stage, all hand-shaking signal status, such as rem_rcvr_status, shall be known as FALSE. With this a prior knowledge, polarity should be accurately detected by the SLAVE side. If a polarity flip is detected, the SLAVE changes the sign of its received signals (RAn, RBn) to correct the polarity. Furthermore, it also changes the sign of its transmitted signals (TAn, TBn). Since polarity correction has been taken care of by the SLAVE PHY, the polarity would always be observed as correct by the MASTER PHY."	SuggestedRemedy Delete ", nominally 33.333 MHz" here. Make it apper explicitly if necessary. Response Response Status W ACCEPT IN PRINCIPLE. See response from comment #16

00 SC 0 P1 L 0 # 18	C/ 96 SC 96.3.2.3 P 42 L 2 # 20 Ran, Adee Intel
nment Type ER Comment Status A Rephrase page header.	Comment Type T Comment Status A Is tranining a stage (as used here), a mode (as in the previous page) or an operation (page
ggestedRemedy	31)?
Change "IEEE 802.3bw Task Force 100BASE-T1 Task Force" to "IEEE P802.3bw 100BASE-T1 Task Force".	The receiver side can use its own transmitted symbols for echo cancellation; but it seems that in this context it should use the received signal, rather than the transmitted symbols
sponse Response Status W	from the partner (to which it doesn't have direct access).
ACCEPT.	Also, "open the eye" is inappropriate here; the "eye" is unobservable inside this kind of receiver.
See response to comment #521.	Overall, shis subclause should describe the transmitter, not the receiver.
99 SC Participants P7 L 13 # 19	SuggestedRemedy
n, Adee Intel	Change
nment Type ER Comment Status A	Ĵ
Task force has a name.	"At training or retraining stage when PHY is in SEND_I mode, transmitted symbols are used at receiver side to acquire timing synchronization and open the eye for link up"
ggestedRemedy	
Change "IEEE P802.3bw Task Force name" to "IEEE P802.3bw 100BASE-T1", 3 times.	to
ACCEPT.	"During training operation (when tx_mode is SEND_I), knowledge of the transmitted symbols may be used at receiver side to perform any signal conditioning neccesary for meeting the required performance during normal operation".
See response to comment 156.	Alternatively, delete this sentence altogether.
	Response Response Status C
	ACCEPT.
	Cl 96 SC 96.3.3.1.1 P 52 L 48 # 21 Ran, Adee Intel
	Comment Type T Comment Status R
	What are the possible values of this parameter and their meanings?
	Applies to most of the variables in this list as well.
	SuggestedRemedy
	List possible values and meaning of each variable.
	Response Response Status C
	Response Response Status C
	REJECT.

Comment ID 21

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C/ 00 SC 0 P1 L 55 # 22	C/ 01 SC 1.4 P 17 L 42 # 24
Ran, Adee Intel	Ran, Adee Intel
Comment Type T Comment Status R	Comment Type TR Comment Status A
Page numbers labels are in roman numerals in the front matter, but are numeric in the main body. Also, there is a mismatch between the actual page number and the labels on the pages. This makes the numbering ambiguous and impedes with comment recording.	The new text is inconsistent with previous descriptions of SSD. See similar comment about ESD.
	SuggestedRemedy
All my comments use the actual page numbers as shown by the PDF reader.	Change
SuggestedRemedy	"For 100BASE-T1, a code-group pattern between two distinct data transmissions onto MDI.
Preferably, consecutive roman numerals everywhere in the draft.	SSD consists of the code-group of 3 consecutive ternary pairs named as SSD1-3 as defined in 96.3."
Pesponse Response Status C	
REJECT.	to
See response to comment #198.	"For 100BASE-T1, the SSD consists of three code-groups, as defined in 96.3.2.4.5."
C/ 01 SC 1.4 P 16 L 53 # 23	Response Response Status W
Ran, Adee Intel	ACCEPT.
Comment Type TR Comment Status A	C/ 45 SC 45.2.1.6 P 24 L 53 # 25
The new text is inconsistent with previous descriptions of ESD. code-group was earlier	Ran, Adee Intel
defined as two ternary symbols, but ESD has six, so is not "a code-group".	Comment Type TR Comment Status A Table 45-
And small numbers in the text should be spelled out.	The value "0 1 1 1 0 0" is taken by 10GBASE-PR-D4 (as of the published 802.3bj).
uggestedRemedy	SuggestedRemedy
Change	Choose an avaialble encoding for 100BASE-T1.
"For 100DASE T1, this delineates data transmission from idle FSD consists of the code	Response Response Status C
"For 100BASE-T1, this delineates data transmission from idle. ESD consists of the code- group of 3 consecutive ternary pairs named as ESD1-3 as defined in 96.3.2.3"	ACCEPT IN PRINCIPLE.
to	
	See response to comment #247.
"For 100BASE-T1, the ESD consists of three code-groups as defined in 96.3.2.4.5."	C/ 45 SC 45.2.1.2001 P 26 L 34 # 26
Response Response Status W	Ran, Adee Intel
ACCEPT.	Comment Type TR Comment Status A Table 45-200 "0 0 1 x" and "0 0 0 1" are not defined. Table 45-200 Table 45-200 Table 45-200
	SuggestedRemedy Add them as "reserved".
	Response Response Status C
	ACCEPT IN PRINCIPLE.
	ACCEPT IN PRINCIPLE. Use commentors suggested remedy. Additionally, remove "000x = reserved for future use".

Comment ID 26

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% 96 SC 96.1.2.3 P 30 an, Adee Intel	L 17	# 27	C/ 96 SC 96.3 P 38 L 33 # 28 Ran, Adee Intel
omment Type TR Comment Status A There is only one wire pair			Comment Type TR Comment Status A Several issues with this paragraph:
uggestedRemedy Change "each" to "the", delete underlines esponse Response Status W			Rate unit should be Baud, not Hz. "ternary symbol pair" has a defined term "code-group" in the definitions (subclause 1.4).
ACCEPT IN PRINCIPLE. Refer to comment #514			Code groups are not multiplexed with anything, just serialized. The result is a stream of ternary symbols, not "1-D 3 level coding", sent to the PMA. Figure 96-3 includes "PCS transmit enable", and doesn't include "PCS Reset".
			Sentences should be reordered for clarity. SuggestedRemedy Change
			"converts the stream of 4-bits at 25 MHz to a stream of 3-bits at 33.333 MHz" to
			"converts the stream of 4-bit words at 25 MBd to a stream of 3-bit words at 33.333 MBd". Change "stream of ternary symbols pairs"
			to "Stream of code-groups". Optionally, add "(pairs of ternary symbols)" since this is the first time the term appears.
			Change "These ternary symbol pairs are then multiplexed to a serialized stream of symbols at 66.666 MHz. As shown in Figure 96-3, the PCS operating functions are PCS Reset, PCS Transmit, and PCS Receive. PCS passes the 1-D 3 level (+1, 0, -1) coding to the PMA to convert to electrical signaling."
			to "These code-groups are then serilized to a stream of ternary symbols at 66.666 MBd, which are sent to the PMA. As shown in Figure 96-3, the PCS operating functions are PC
			Transmit Control, PCS Transmit, and PCS Receive." Response Response Status W ACCEPT IN PRINCIPLE.

Change

"converts the stream of 4-bits at 25 MHz to a stream of 3-bits at 33.333 MHz" to

"converts the stream of 4-bit words at 25 MBd to a stream of 3-bit words at 33.333 MBd".

Change

"stream of ternary symbols pairs"

to

"Stream of code-groups (pairs of ternary symbols)".

Change

"These ternary symbol pairs are then multiplexed to a serialized stream of symbols at 66.666 MHz. As shown in Figure 96-3, the PCS operating functions are PCS Reset, PCS Transmit, and PCS Receive. PCS passes the 1-D 3 level (+1, 0, -1) coding to the PMA to convert to electrical signaling."

to

"These code-groups are then serialized to a stream of ternary symbols at 66.666 MBd, which are sent to the PMA. As shown in Figure 96-3, the PCS operating functions are PCS Transmit Control, PCS Transmit, and PCS Receive."

CI 96	SC 96.3	P 38	L 38	#	29
Ran, Adee		Intel			

Comment Type TR Comment Status A

The previous paragraph describes the functions in the transmit direction. The functions on the receive direction are missing.

SuggestedRemedy

Either add a matching paragraph for the receive direction, or move the previous paragraph to the PCS transmit subclause, 96.3.2.

Response Response Status W

ACCEPT IN PRINCIPLE.

Move "The PCS performs a 4B3B conversion of the nibbles received at the MII, creates the ternary symbols, and then sends the symbols to the PMA for further processing. It receives 4 bits at the MII using TX_CLK, and converts the stream of 4-bits at 25 MHz to a stream of 3-bits at 33.333 MHz . The bits are then scrambled and converted through PCS encoding to a stream of ternary symbols pairs. These ternary symbol pairs are then multiplexed to a serialized stream of symbols at 66.666 MHz."

page 41 line 2.

Change

"As shown in Figure 96-3, the PCS operating functions are PCS Reset, PCS Transmit, and PCS Receive. PCS passes the 1-D 3 level (+1, 0, -1) coding to the PMA to convert to electrical signaling."

to

"Physical Coding Sublayer (PCS) consists of PCS Reset, PCS Transmit and PCS Receive functions as shown in Figure 96-3. PCS Transmit function is explained in section 96.3.2, and PCS Receive function is explained in section 96.3.3."

				W D1.2 100BA3E-11		y Group ballo	d comments		
C/ 96 Ran, Adee	SC 96.3.2.3	P 41 Intel	L 33	# 30	C/ 96 Ran. Adee	SC 96.3.3.1.2	2 P 53 Intel	L 50	# 32
Comment Typ		Comment Status A cheme, not an encoding teo	hnique.		Comment Where		Comment Status A g rules outlined? Sould be S	96.3.3.2, but nothi	ng is really outlined
The actua to be spe SuggestedRe Change " to "tx_dat symbosi : 96.x.y.z)" Add a mo Response ACCEPT Change " to "tx_data[i	al modulation s ecified anywhen emedy "tx_data[2:0] is ta[2:0] is encod are converted t '. odulation schen "IN PRINCIPLE "tx_data[2:0] is 2:0] is encoded	cheme (how symbol values e. encoded using PAM3 techr led into ternary symbols as o an analog signal using a ne specification subclause. <i>Response Status</i> W	relate to voltage nique into a vecto specified in 96.3. PAM3 modulation	r of ternary symbols" 2.4, and these terrnary n scheme (see r of ternary symbols" 4, and these ternary	there. Suggested Point to Response ACCEI Chang "in 96.3 to "in 96.3 Delete "The P Move "The re correct	Remedy 9 96.3.3.2, and v PT IN PRINCIPL 9 3.3.1" 3.3.2" CS Receive func- eceived symbols operation, PCS	vrite the decoding rules clea <i>Response Status</i> W E. ction accepts received symt are converted to a 2-D tern Receive uses the knowledg	ools provided by F ary pair (RAn, RE ge of the encoding	PMA Receive function Bn) first. To achieve g rules that are
Ran, Adee Comment Typ INVALID output" bi separate SuggestedRe A variable Response ACCEPT Change "Any rand	is assigned int e identified as i variable should emedy e to flag the inc	P 52 Intel Comment Status A o rx_data[2:0] in Figure 96- invalid? there should either d flag invalid data. lalid data is suggested. Response Status W E.	be an unique ide		indicat scr_sta rx_data signals	es the reliable ad itus to OK. The r a[2:0], rx_dv, and RXD[3:0], RX_I	ode. PCS Receive generate equisition of the descramble eceived ternary pairs (RAn, d rx_error, that are processe DV and RX_ER at the MII." o on page 54 line 15.	r state by setting , RBn) are decode	the parameter ed to generate signal
to "Three hi		undial anal diana anada du							
iniee-bi	it outputs are in	valid and disregarded"							

Cl 96 Ran, Adee	SC 96.3.3.1.3	P 54 Intel	L 4	# 33	C/ 96 Ran, Adee	SC 96.	3.3.4	P 54 Intel	L 33	# 35
Comment Ty Is "K" a	51	Comment Status A 24? This an unusual style.			Comment incorre	<i>Type</i> T ect cross re		Comment Status A		
		ified in time units, otherwis	e they are counte	rs.	Suggested Chang	-	symbol m	apping in training" to "tak	ole 96-1"	
SuggestedR Use plai	Remedy in numbers.				Response		R	Response Status W		
	bly, define the ap	propriate period explicitly.						d remedy to fix the cross	reference. In titl	e of Table 96-1
Response ACCEP	T IN PRINCIPLE	Response Status W			remove	e strikethro	ough text "	de" and remove underlin	ne from "Idle"	
Change to	e "Expires after co	ounting 36K (+/- 1.8K) pcs_	_rxclk clock cycles	5."	<i>C</i> / 96 Ran, Adee	SC 96.	3.3.4	P 55 Intel	L7	# 36
"A timer stays in	DATA state. The	ne the maximum amount on timer shall expire 1.08 m r_done becomes true upor	s +- 54µs after be	ing started. The	Comment rx_dat			Comment Status A ally infinite. Does this refe	er to the number	of bits in a frame?
C/ 96 Ran, Adee	SC 96.3.3.2	P 54	L 18	# 34	Suggested Clarify	-				
Comment Ty		Comment Status A	is unclear		Response ACCE	PT IN PRI		Pesponse Status W		
SuggestedR	Remedy	larify what it is that the reco Response Status W			the res	number of		the rx_data stream in pcs y the stuff bits appended		
ACCEP	T IN PRINCIPLE				to					
Receive	PMA Receive inc e function shall cl	licates normal operations a heck Ind search for SSD or rece			four, th	e residual	bits are a	the received data frame i ctually the stuff bits appe nsmitter side."		ain is not a multiple of
to										
Receive	e function checks	licates normal operations a , nd searches for SSD or re								

C/ 01 SC 1.4 Ran, Adee	P 16 Intel	L 23	# 37	C/ 01 SC 1.4 Ran, Adee	P 18 Intel	L 18	# 39
ternary, and PAM3 is th symbols", which would Also, "(out of 9 possible SuggestedRemedy	Comment Status A sunclear and redundant. Set e electrical modulation. This be consistent with previously combinations)" is confusing PAM3 symbols" to "pair of te	seems to mean discussed PHYs and unnecessar	"a pair of ternary s.	Comment Type E Seems that "are" sho SuggestedRemedy Please correct the se Response ACCEPT IN PRINCIP Change	Response Status C		
Delete (out of 9 possible Response ACCEPT IN PRINCIPLI see response to comme	Response Status W	f ternary PAM3 s	symbols".	"characteristics are p to "characteristics as pr <i>C</i> / 01 SC 1.5 Ran, Adee		L 39	# [40
Cl 01 SC 1.4 Ran, Adee Comment Type E	9 possible conbinations)" P 18 Intel Comment Status A interchangably in the draft. S ghout. Response Status C	L 17 Should use the O	# 38	SuggestedRemedy			

C/ 96 SC 96.1 P 29 L 7 # 41 Ran, Adee Intel	C/ 96 SC 96.1.2 P 29 L 27 # 43 Ran, Adee Intel
Comment Type E Comment Status R 100 Mb/s appears repeatedly.	Comment Type E Comment Status R The other PHYs referenced here are parts of the same standard (802.3), not "other standards", so they are inappropriate here.
Redundant "type" and unabbreviated sublayer names which are well known.	
Both "PHY" and "Physical layer" - double definition.	compare with 40.1.2.
SuggestedRemedy Change "This clause defines the 100BASE-T1 PHY type, operating at 100 Mb/s, Physical Coding	This subclause does not appear in recent clauses. See for example clause 80 which has "80.1.3 Relationship of 40 Gigabit and 100 Gigabit Ethernet to the ISO OSI reference model".
Sublayer and type Physical Media Attachment sublayer"	Associated clauses can be put in a table, see for example Table 84-1.
to "This clause defines the type 100BASE-T1 PCS and type 100BASE-T1 PMA sublayers". Response Response Status C REJECT. 100BASE-T1 type must be defined in this clause. PHY is defined in 1.5, page 47.	The last paragraph of this subclause appears out of place, and is probably not needed. SuggestedRemedy Rewrite this subclause as a table like Table 84-1. Remove the last paragraph. Response Response Status C REJECT. See response to comment #308.
C/ 96 SC 96.1.1 P 29 L 19 # 42 Ran, Adee Intel Comment Type E Comment Status A	C/ 96 SC 96.1.2.1 P 30 L 1 # 44 Ran, Adee Intel
This is not the full set of objectives. Also, in objective a (as listed here), "or better" does not appear in the task force objectives. There are no class or reach listed here, so better than what? SuggestedRemedy Bring in the full and correct objectives list, or alternatively remove this subclause. Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type E Comment Status R Subclauses 96.1.2.1 to 96.1.2.3 do not seem to fit in the hierarchy under "relationship to other standards". It is not clear where they belong to. SuggestedRemedy Delete these subclauses, possibly move text to other subclauses when necessary. Response Response Status C REJECT. These subclauses establish the relationship with other clauses. C

Ran, Adee Intel Intel Ran, Adee Intel Comment Type E Comment Status A A "channel" is ambiguous here: AO: Tuses the term "link segment" rather than "channel" and refers to a "A-pair Cat 5 balanced cabling system". Suggest being consistent with the terms. SuggestedRemedy Comment Status A Unless this lask is deleted by another comment: change "four pairs of a channel" to "a single-pair balanced cabling system" and "one pair channel" to "a single-pair balanced cabling system". C Change Change Change Change Response Status C "Tour pairs of a channel" to "a single balanced cabling system". Change Change Response Status C ACCEPT IN PRINCIPLE. Change "Tour pairs of a channel" to "a single balanced to wisted pair" Change Intel Comment Status A "a A-pair balanced cabling system" P32 L14 #48 A_n are multiple symbols (indexed by n). "SuggestedRemedy" Cf 96 SC 96.2 P32 L14 #48 A_n are multiple symbols (indexed by n). "SuggestedRemedy" Change "not description here and elsewhere, it is not a "mode" since there is no other way to speriate. Ran, Adee Intel Comment Type E Comment Status A _n are multiple symbo										
Comment Type E Comment Status A "channe" is ambiguous here. 40.7 uses the term "link segment" rather than "channel" and iffers to a "t-pair Call Shealmed cabling system". Suggest toring consistent with the terms. Suggested/Remedy Unless this test is deleted by another comment: change Tour pairs of a channel" to "a single-pair balanced cabling system" and "one pair channel" to "a single-pair balanced cable" Accept T IN PRINCIPLE. Change Response Status C Change "one pair channel" to "a single-pair balanced cabling system" Change "system" and "one pair channel" to "a single-pair balanced cabling system" C P41 L51 # [#] Change "not pair channel" to "a ingle pair balanced cabling system" C P41 L51 # [#] Change "not pair channel" to "a ingle pair balanced cabling system" P32 L14 # [#] Tore pair channel" to "symbols A_n". Comment Type E Comment Type Comment T	C/ 96	SC 96.1.2		L 30	# 45		SC 96.3.2.2		L 16	# 47
 "channe" is ambiguous here. 40.7 uses the term "link segment" rather than "channel" and raties to a "4-pair Cali balanced cabling system". Suggest being consistent with the terms. Suggest using "Ethemet packet" and adding an appropriate xef. SuggestedRendy Unless this tex is deleted by another comment change "four pairs of a channel" to "a 4-pair balanced cabling system" and "one pair channel" to "a single-pair balanced cable". Response Response Status C ACCEPT IN PRINCIPLE. Change "not pair of a channel" to "a single balanced cabling system". Change "not pair obained" to "a single balanced cabling system". Change "not pair obained" to "a single balanced to abling system". Change "not pair obained" to "a single balanced to abling system". Change "not pair obained" to "a single balanced to abling system". Change "not pair obained" to "a single balanced to abling system". Change "not pair obained" to "as a generally regorgizable to matching in the terms. Change Intel Comment Type E Comment Status R "FORCE mode" is not defined anywhwere in this draft, and is not a generally regorgizable to "ande" in an diservere. SuggestedRendy/ Change "inserting and SSD" to "inserting an SSD". Response Status C ACCEPT. 	Ran, Adee		Intel			Ran, Adee		Intel		
refers to a "4-pair Cat 5 balanced cabling system". Suggest being consistent with the terms. Suggested/Remody Unless this to is deleded by another comment: change "four pairs of a channel" to "a 4-pair balanced cabling system" and "one pair channel" to "a single-pair balanced cable". Response Response Status C ACCEPT IN PRINCIPLE. Change "Your pairs of a channel" to "a 4-pair balanced cabling system". Change "Your pairs of a channel" to "a 4-pair balanced cabling system". Change "Your pairs of a channel" to "a 4-pair balanced cabling system". Change "Your pairs of a channel" to "a single balanced cabling system". Clange "Your pairs of a channel" to "a single balanced twisted-pair". Clange "Your pairs of a channel" to "a single balanced twisted-pair". Clange "Your pairs of soct office anywhwere in this draft, and is not a generally repocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. The way to serter leaters/lave relationship seems to be by what is usually called "management". If this term is to speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" to "s set by management". Make similar changes throughout the draft as appropriate. Response Response Status C AccEPT.	Comment Ty	/pe E	Comment Status A			Comment 7	Type E	Comment Status A		
Intest bis text is deleted by another comment change "four pairs of a channel" to "a single-pair balanced cable" Change "when the number of bits of a packet is not multiple of three". Response Response Status C ACCEPT IN PRINCIPLE. Change "hannel" to "a channel" to "a chan to "a pochan to the channel" to "a channel" to "a cha										eric term. I would
pair balanced cabling system" and "one pair channel" to "a single-pair balanced cable" of bits of an Ethernet packet (see 3.1.1) is not multiple of three". Response Response Status C ACCEPT IN PRINCIPLE. Change Change "four pairs of a channel" See response Status C to a 4-pair balanced cabling system" See response to comment #228. Change P32 L14 # 46 "a single balanced twisted-pair" Intel Comment Type E Comment Status An are multiple symbols (indexed by n). "so for SC 96.2 P 32 L14 # 46 A_n are multiple symbols (indexed by n). "so for SC 96.2 P 32 L14 # 46 A_n are multiple symbols (indexed by n). "So SC 96.2 P 32 L14 # 46 A_n are multiple symbols (indexed by n). "So CP is an initialism and can only be read by spelling out the letters, so should be preceded by "an" (as in "an MDI"). Suggested/Remedy Change "inserting a SSD" to "inserting an SSD". Response Status C ACCEPT. The way to set the master/slave relationship seems to be by what is usually called "management". If this term is too specifict, an altemative is "external configuration". This sphies to several other places where "FORCE mode"	SuggestedRe	emedy				Suggested	Remedy			
ACCEPT IN PRINCIPLE. Change "tour pairs of a channel" to "a 4-pair balanced cabling system" Change "one pair channel" to "a 4-pair balanced twisted-pair" Cl 96 SC 96.2 P32 L14 # 46 Comment Type E Comment Status A A_n are multiple symbols (indexed by n). "SSD" is an initialism and can only be read by spelling out the letters, so should be preceded by "and" (as in "an MDI"). SuggestedRemedy change "is set by FORCE mode" to "is set by management". The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C										" to "when the number
Change "four pairs of a channel" is a pair balanced cabling system" Change is a pair balanced cabling system" Change is a pair channel" is a p	Response		Response Status C			Response		Response Status C		
¹ tor pairs of a channel" to ¹ a 4-pair balanced cabling system" Change ¹ one pair channel" to ¹ a single balanced twisted-pair" Cl 96 SC 96.2 P 32 L 14 # 46 Comment Type E Comment Status A ¹ A_n are multiple symbols (indexed by n). SDD' is an initialism and can only be read by spelling out the letters, so should be preceded by ¹ an ¹ (as in ¹ an MD ¹). SUggestedRemedy ¹ Change "inserting a SD ⁰ to "inserting a SD ⁰ . Response to be by what is usually called ¹ management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C	ACCEPT	T IN PRINCIPLE.				ACCER	PT IN PRINCIF	PLE.		
to ''''''''''''''''''''''''''''''''''''	0					See re	sponse to com	ment #228.		
Change "one pair channel" to Intel Cl se SC 96.2 P 32 L 14 # 46 Comment Type E Comment Status A A_n are multiple symbols (indexed by n). "SSD" is an initialism and can only be read by spelling out the letters, so should be preceded by "an" (as in "an MDI"). "SSD" is an initialism and can only be read by spelling out the letters, so should be preceded by "an" (as in "an MDI"). Comment Type E Comment Status R "FORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. Change "inserting a SSD" to "inserting an SSD". The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too specificit, an alternative is "external configuration". Change "is set by FORCE mode" to "is set by management". SuggestedRemedy change "is set by FORCE mode" to "is set by management". Comment Type is set by FORCE mode" to "is set by management". C Make similar changes throughout the draft as appropriate. Response Response Status C C	to					Cl 96	SC 96.3.2.3	<i>P</i> 41	L 51	# 48
"one pair channel" to "a single balanced twisted-pair" A_n are multiple symbols (indexed by n). "SC 96.2 P 32 L 14 # 46 Comment Type E Comment Status R "CORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is to ospeficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" to "is set by management". SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Status C	"a 4-pair	r balanced cabling	g system"			Ran, Adee		Intel		
to **a single balanced twisted-pair* ''a single balanced twisted-pair* Cl 96 SC 96.2 P 32 L 14 # 46 Ran, Adee Intel .	Change					Comment	Туре Е	Comment Status A		
"a single balanced twisted-pair" Cl 96 SC 96.2 P 32 L 14 # do Ran, Adee Intel Intel Scoment Type E Comment Status R "FORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. Scoment Type E Comment Type is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. Scoment Type is not defined anywhere relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". Change "inserting a SSD" to "inserting an SSD". SuggestedRemedy Change "is set by FORCE mode" to "is set by management". AccEPT. Make similar changes throughout the draft as appropriate. Response Status C Response Response Status C	•	r channel"				A_n ar	e multiple syml	bols (indexed by n).		
C/ 96 SC 96.2 P32 L14 # 46 Ran, Adee Intel Comment Type E Comment Status R "FORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. Change "inserting a SSD" to "inserting an SSD". The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". Change "inserting a SSD" to "inserting an SSD". SuggestedRemedy change "is set by FORCE mode" to "is set by management". AccEPT. Make similar changes throughout the draft as appropriate. Response Response Response Status C Response Status			d-pair"						lling out the letters	s, so should be
Ran, Adee Intel Change "symbol A_n" to "symbols A_n". Comment Type E Comment Status R "FORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. Change "inserting a SSD" to "inserting an SSD". The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". Change "inserting a SSD" to "inserting an SSD". SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C Response Response Status C	C/ 96	SC 96.2	-	L 14	# 46	•	•	,		
"FORCE mode" is not defined anywhwere in this draft, and is not a generally regocgnizable term. Based on the description here and elsewhere, it is not a "mode" since there is no other way to operate. The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C	,					00		" to "symbols A_n".		
term. Based on the description here and elsewhere, it is not a "mode" since there is no Response Response Status C ACCEPT. The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C						Chang	o "inconting o C	CD" to "incorting on CCD"		
other way to operate. Intesponse Status C ACCEPT. The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C						•	e inserting a c	0		
The way to set the master/slave relatinoship seems to be by what is usually called "management". If this term is too speficit, an alternative is "external configuration". This applies to several other places where "FORCE mode" appears. SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C						•	77	Response Status C		
SuggestedRemedy change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C						ACCER	-1.			
change "is set by FORCE mode" to "is set by management". Make similar changes throughout the draft as appropriate. Response Response Status C	This app	olies to several ot	her places where "FORCE	mode" appears.						
Make similar changes throughout the draft as appropriate. Response Response C	SuggestedRe	emedy								
Response Response Status C	change "	"is set by FORCE	mode" to "is set by manag	gement".						
	Make sin	milar changes thr	oughout the draft as appro	priate.						
REJECT.	Response		Response Status C							
	REJECT	г.								

See response to comment #132, a definition for FORCE mode is now provided.

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 Ran, Adee	.2.3.1	P 44 Intel	L 2	# 49	<i>CI</i> 96 Ran, Adee	SC 96.3.2.4.4	P 47 Intel	L 33	# 51
Comment Type E Unlike in clause 4 draft. It may be or	0, a variable na	ent Status R amed "DATA" does	not seem to be u	used anywhere in this	<i>Comment T</i> n is a s	ype E ubscripts.	Comment Status A		
If not omitted:	s are possible a		st one; should be	e "a", not "the". Also,	Suggested	Remedy	d bits, not scrambling bits. ion of scrambled bits Sd_n[<i>Response Status</i> C	2:0]" (_n meanin	g subscript n).
uggestedRemedy Delete this variabl	e definition, or	rephrase if necess	ary.		ACCEF	T. SC 96.3.2.4.5	P 47	L 1	# 52
Response REJECT.	,	nse Status C	-		Ran, Adee Comment 7 Title do		Intel Comment Status R		
DATA is used in 9 7 96 SC 96.3 2 an, Adee		P 47 Intel	L 20	# 50			s subclause is general, but t d they are not related to Sd		where SSD and ESE
<i>comment Type</i> E Why separate Sc_		ent Status A			Suggested Find a I SSD.		t this subclause into two, or	ne general and o	ne defining ESD and
<i>uggestedRemedy</i> Merge into a singl	e rule for gene	rating Sc_n[2:0].			Response REJEC	Т.	Response Status C		
Response ACCEPT IN PRIN		nse Status C			The par	agraph captures	special code groups SSD,	ESD, and Sdn.	
Bits Scn[2:0] shall Scn[2:0] =	be generated	as follows							
[0 0 0] if (tx_mode Syn[2:0] else	= SEND_Z)								

C/ 96 SC 96.3.2.4.6 P 47 # 53 C/ 96 P 55 L 9 # 56 L 8 SC 96.3.3.4 Ran, Adee Intel Ran, Adee Intel Comment Type Е Comment Status A Comment Type E Comment Status R This subclause and the 3 following it should be in a lower hierarchy under 96.3.2.4.5. Normative statements do not seem necessary here. SuggestedRemedy SuggestedRemedy Move in hierarchy. Change first "shall be" to "are", and second to "is". Response Response Response Status C Response Status C ACCEPT. REJECT. Change "96.3.2.4.6" to "96.3.2.4.5.1". C/ 01 SC 1.4 P 16 L 24 # 57 Change "96.3.2.4.7" to "96.3.2.4.5.2". Ran. Adee Intel Change "96.3.2.4.8" to "96.3.2.4.5.3". Change "96.3.2.4.9" to "96.3.2.4.5.4". Comment Type ER Comment Status A missing "that" Consequently, change "96.3.2.4.10" to "96.3.2.4.6" SuggestedRemedy C/ 96 SC 96.3.3 P 50 L 26 # 54 insert "that" after ", when representing data". Ran, Adee Intel Response Response Status W Comment Status A Comment Type Ε ACCEPT IN PRINCIPLE. Should this subclause title include "function" as in 96.3.2? SuggestedRemedy Change to "that, when representing data" Change title to "PCS Receive function". C/ 01 SC 1.4 P17 L 2 # 58 Response Response Status C Ran, Adee Intel ACCEPT. Comment Type ER Comment Status A Use commentors suggested remedy. Newly inserted text should be underlined, deleted text should be struck out. Comment applies to numerous places in clause 1. C/ 96 P 53 # 55 SC 96.3.3.1.1 L 24 SuggestedRemedy Ran. Adee Intel Add "and" in strikeout before "Clause 40". Underline ", and Clause 96". Comment Type E Comment Status A This is a variable, it does not seem to be parameter of any primitive. Apply elsewhere as necessary. Response Response Status W SuggestedRemedy ACCEPT IN PRINCIPLE. Change "Parameter" to "variable" or delete. Response Response Status C Add "and" before "Clause 40" with strikedout, "and Clause 96" will be underlined. ACCEPT IN PRINCIPLE. Change "Parameter" to "Variable".

IEEE P802.3bw D1.2 100BASE-T1 Initial Working Group ballot comments

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 58

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C/ 01 SC 1.2 Ran, Adee	P 17 Intel	L 10	# 59	C/ 01 SC 1.5 Ran, Adee	P 19 Intel	<i>L</i> 1	# 62
Comment Type ER double "and"	Comment Status A			Comment Type ER Notes for editors sho	Comment Status A ould not be included in the publi	ished draft.	
SuggestedRemedy Delete the second "an				Changes between ve SuggestedRemedy	ersions probably won't be main	tained, and can b	be deleted.
Response	Response Status W			Delete content of pa	ge 5 and page 6.		
ACCEPT.				Response	Response Status W		
C/ 01 SC 1.4	P 18	L 15	# 60	ACCEPT.			
Ran, Adee	Intel			Similar comment in 7	18, see the proposed change	for this text there	<u>}.</u>
Comment Type ER template text	Comment Status A			C/ 30 SC 30.3.2. Ran, Adee	1.2 P 22 Intel	L 11	# 63
	on uses Paragraph Tag D3,De	efinitions. (See C	lause 96.)"	Comment Type ER Instruction should be	Comment Status A "Insert". Also applies in the fol	llowing subclause	es.
Response ACCEPT.	Response Status W			SuggestedRemedy Change instructions	to "insert after" multiple times	s.	
C/ 01 SC 1.4 Ran, Adee	P 18 Intel	L 32	# 61	Response ACCEPT IN PRINCI	Response Status W		
	Comment Status A , and especially the normative e term is used as a subclause			to	PROPRIATE SYNTAX as follow		
Delete the "PHY-Initia	lization" paragraph.			Additionally remove	underline from associated text.	Repeat for instru	uctions in 30 3 2 1 2 8
Response ACCEPT IN PRINCIP	Response Status W			30.5.1.1.2.			100015 III 30.3.2.1.3 Q
See response to comr	ment #132						

CI 30 SC 30.5.1	.1.11 P 22	L 36	# 64	C/ 45	SC 45.2.1	P 24	L 16	# 66
Ran, Adee	Intel			Ran, Adee		Intel		
Comment Type ER	Comment Status A			Comment	Type ER	Comment Status A		
Incorrect subclause	number. Should be 30.5.1.1.4 t	o match title.				ubcluase numbers (inserted s		d have successive
Also in line 38.							,	
SuggestedRemedy				Also, n bookm	0	ferences to these sucblauses	(they don't have	assocuated
Change 11 to 4 twic Response	Response Status C			Suggested		if needed. add bookmarks and	d xrefs	
ACCEPT.				Response		,		
Use commentors su	uggested resolution.			•	PT IN PRINCIP	Response Status W		
C/ 30 SC 30.5.1 Ran, Adee	I.1.11 P 22 Intel	L 43	# 65			nbers were chosen as tempor ks and cross references to be		
Comment Type ER	Comment Status A			C/ 45	SC 45.2.1.1	P 24	L 24	# 67
Missing cross-refere	ence hotspot to figure 96-16.			Ran, Adee		Intel		
Applies in multiple of	other places in the draft.			Comment	Type ER	Comment Status A		Table 45
SuggestedRemedy				This is	the control regi	ster, not the status register.		
add xref, multiple pl	aces.					changed in this register. The		ed" line was removed,
Response	Response Status W				••	in strikeout. Why was this cha	ange made?	
ACCEPT IN PRINC	CIPLE.			Suggested			. (
Draft will be scrubbe	ed of missing cross-references.			If not c	nange is made,	remove the editing instruction	n (and this subci	ause).
	J			Otherw	vise, show the c	hange appropriately, and char	nge "status" to "o	control" in the title.
				Response		Response Status U		
				ACCE	PT IN PRINCIP	LE.		
				Remov	ve editing instru	ction and Table 45-4 from dra	ft.	

C/ 96 SC 96.1.2.3 Ran, Adee	P 30 Intel	L 23	# 68	C/ 96 Ran, Adee	SC 96.4.3	P 57 Intel	L 34	# 70
Comment Type ER Commen "delimiters" out of place, underline in	<i>t Status</i> A nstead of dash			Comment T typo	уре Е	Comment Status A		
SuggestedRemedy change				Suggestedl change		TA to PMA_UNITDATA.		
"Robust delimeters for Start-of_streat control signals"	am delimiter (SSD)	, End-of-Stream (ESD), and other	Response ACCEF	ΥТ.	Response Status C		
to				Use co	mmentors sugg	gested remedy.		
"Robust encoding for Start-of-Stread other control signals"	m delimiter (SSD),	End-of-Stream de	limiter (ESD), and					
Response Response ACCEPT.	Status W							
Use commentors suggested remedy	у.							
C/ 96 SC 96.4.2 Ran, Adee	P 57 Intel	L 18	# 69					
Comment Type E Commen Style manual: "will" is deprecated, i	<i>t Status</i> A is only used in state	ments of fact.						
SuggestedRemedy Change "will set" to "sets".								
Change "will source" to "derives", tw	wice.							
Response Response ACCEPT.	e Status C							

<i>CI</i> 96 Ran, Adee	SC 96.4.3	P 57 Intel	L 39	# 71	C/ 96 Ran, Adee	SC 96.4	.3	P 58 Intel	L 7	# 72
Comment T loc_rcv		<i>Comment Status</i> A iable, not a primitive.			Comment T scr_sta			ment Status R tive is PMA_SCRST	ATUS.request.	
		be renamed to the primitive r	name PMA_SCRS	STATUS.request.	Suggested change		to PMA_SC	RSTATUS.request.		
Scramb	oler or descram	bler?			Response		Resp	onse Status C		
Long se	entences have a	awkward clause order. Rephr	asing suggested.		REJEC	Т.				
SuggestedF Change	,				scr_sta	tus is defin	ed on page 6	61, line 37.		
"This pr	rimitive conveys	s to the PCS Transmiter, PCS			C/ 96 Ran, Adee	SC 96.4	.4	P 58 Intel	L 21	# 73
not. PM status c	IA_SCRSTATU	IS.request is generated by the oler for the local PHY. It conve of synchronization or not to the	e PCS Receiver to eys the information	o communicate the n on whether the		mode, un			o sentences. It do	esn't clarify anything,
to					Also, "r	ormal stat	e" is elsewhe	re defined as a mod	е.	
"This va	ariable conveys	the information on whether t	ne status of the ov	verall received link is	Suggested	Remedy				
Monitor	. PMA_SCRST	ransmiter, PCS Receiver, PM ATUS is generated by the PC the local PHY. It conveys the	S Receiver to co	mmunicate the status			ode is used ORCE mode	to achieve link acqui ,"	sition between tw	o 100BASE-T1 link
		eved synchronization or not to			Change	e "in a norn	nal state" to "	in the normal mode"		
Response ACCEP	PT IN PRINCIPL	Response Status C _E.			Response ACCEF	T IN PRIN	,	onse Status C		
and Lin not. PM status c scramb to "This va Control not. scr to the lo	rimitive conveys k Monitor the in IA_SCRSTATU of the descramb ler has achieve ariable conveys function and Li _status is gene ocal PHY. It cor	s to the PCS Transmiter, PCS formation on whether the sta IS.request is generated by the bler for the local PHY. It conve ed synchronization or not to the the information to the PCS T ink Monitor whether the status erated by the PCS Receiver to hveys the information on whether to the PMA receive function.	tus of the overall e PCS Receiver to eys the information ne PMA receive fur ransmiter, PCS R s of the overall receive indicate the statu her the scrambles	received link is ok or o communicate the n on whether the unction." Receiver, PMA PHY ceived link is ok or us of the descrambler	Chango "in a no to			2 for FORCE mode	definition.	

C/ 96 SC 96.4.7 P 61 L 1 Ran, Adee Intel	1 # 74	C/ 96 S Ran, Adee	SC 96.4.7	P 61 Intel	L 20	# 76
Comment Type E Comment Status A What does the link_control variable mean or do? help the rea	der.	Comment Typ "link" can't		Comment Status A eceive link" and "transmit link	" (see definition	in 1.4.235).
"Set by default" to what value? why should that be mentioned others?	I for this variables and not for	loc_rcvr_s	tatus is relate	ed to the receive function.		
SuggestedRemedy		Similarly for	or rem_rcvr_s	status.		
Add a meaningful description.		SuggestedRer	-			
Response Response Status C		Change "r	eceive link" t	o "receive function" here and	in line 31.	
ACCEPT IN PRINCIPLE.		Response ACCEPT.		Response Status C		
Add "This variable is defined in Clause 28.2.6.2." to the end of the	e sentence.		SC 96.5.1.2	P 62	L 39	# 77
C/96 SC 96.4.5 P 60 L 3	8 # 75	Ran, Adee	_	Intel		
an, Adee Intel		Comment Typ		Comment Status R unit symbols should be Ome	aa in baading a	nd tout
omment Type E Comment Status R FORCE mode is not defined anywhere. This paargraph does information.	n't seem to add any	SuggestedRer	nedy	150 {Omega sign}" twice.	ga, in neading a	
uggestedRemedy		Response		Response Status C		
Delete "FORCE mode is used to set link_control to ENABLE In FORCE mode, Link Monitor State diagram supports the 10 operation."		REJECT.				
esponse Response Status C		"150Ohm"	is the title of	the test method defined in IE	-C61967-4.	
REJECT.		C/ 96 S Ran, Adee	SC 96.5.1.3	P 62 Intel	L 45	# 78
See response to comment #132 for definition of FORCE mod necessary.	e. The paragraph is	Comment Type TX clock fi requireme	requency is s	Comment Status A specified in 96.5.4.5, this is a	duplicate in an c	dd hierarchy (EMC
		SuggestedRer Delete sub	<i>nedy</i> oclause 96.5.	1.3.		
		Response ACCEPT.		Response Status C		
		Use comm	nentors sugg	ested remedy.		

C/ 96 SC 96 Ran, Adee	.5.1.1 P 62	L 37	# 79	C/ 96 Ran, Adee	SC 96.5.2	P 63 Intel	L 43	# 81
Comment Type Immunity require specification. SuggestedRemedy	ement is already normative from pa	arent subclause, ai	nd this is not a test	Comment 7 x2_n is	not used by the	Comment Status A e symbol mapping in table 96 transmitter in this PHY.	5-5 and needs no	t be defined.
Change "shall b <i>Response</i> REJECT.	Response Status C			Change	e "x0n, x1n, and	d x2n" to "x0n and x1n". Dele mbol sequence shall be pres		
· ·	o comment #595.			Response ACCEF	РТ.	Response Status C		
transmitter jitter Why discuss the SuggestedRemedy Delete the first to feature".	Intel T Comment Status A onal (unlike clause 40 equivalent)? in slave mode? e timing jitter requirement here? un wo sentences of this paragraph, up	necessary even if	optional.	enough The se mask te	n" is an incomp "? quence of test r esting as well?	P 64 Intel Comment Status A elete definition. Is there a required mode 4 is pseudo-random - s If it's not sufficiently random, ger generating polynomial fo	o, can test mode define the rando	4 be used for PSD
	Response Status C INCIPLE. ole paragraph. Also, in table 96-4, node (reserved)", and insert "Reser			Response		d use test mode 4 for PSD m <i>Response Status</i> C F	ask testing.	
	timing jitter is shown in section 96.			Reject:	Delete test mo		o "pseudo-randoi	m".

P 65 Intel Comment Status R 3 was used to measure a only on other lanes. In aminated" by the remote ck separately. burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measure d active anyway.	this PHY, indeed e signal. I assum of adding a separa tative signal (as n ne questionable. hay be removed b and/or post-proce rement method) r mode 3 while a d sk partner signal's	ed, there is only one pair ne this is the reason for rate clock output does required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	Cl 96 SC 96.5.3 P 65 Ran, Adee Intel Comment Type T Comment Status A V_d is not fully defined. Is it a sine wave? Peak-to-peak is usually twice the amplitude. A Also, the test pattern generator has only the transmitter pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 · frequency given by one-sixth of the symbol rate synchritic to "The disturbing signal Vd shall be a sine wave, synchritic clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C ACCEPT. ACCEPT. C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
Comment Status R 3 was used to measure a only on other lanes. In aminated" by the remote ck separately. burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measured active anyway.	this PHY, indeed e signal. I assum of adding a separa tative signal (as n ne questionable. hay be removed b and/or post-proce rement method) r mode 3 while a d sk partner signal's	ed, there is only one pair ne this is the reason for rate clock output does required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	Comment Type T Comment Status A V_d is not fully defined. Is it a sine wave? Peak-to-peak is usually twice the amplitude. Also, the test pattern generator has only the transmitter pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchrocick, with frequency given by one-sixth of the symbol rate synchrocick, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
3 was used to measure a only on other lanes. In aminated" by the remote ck separately. burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measure d active anyway.	this PHY, indeed e signal. I assum of adding a separa tative signal (as n ne questionable. hay be removed b and/or post-proce rement method) r mode 3 while a d sk partner signal's	ed, there is only one pair ne this is the reason for rate clock output does required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	V_d is not fully defined. Is it a sine wave? Peak-to-peak is usually twice the amplitude. Also, the test pattern generator has only the transmitter pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchriter to "The disturbing signal Vd shall be a sine wave, synchriter clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
a only on other lanes. In aminated" by the remote ck separately. burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway.	this PHY, indeed e signal. I assum of adding a separa tative signal (as n ne questionable. hay be removed b and/or post-proce rement method) r mode 3 while a d sk partner signal's	ed, there is only one pair ne this is the reason for rate clock output does required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	Peak-to-peak is usually twice the amplitude. Also, the test pattern generator has only the transmitter pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchro- to "The disturbing signal Vd shall be a sine wave, synchro- clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
aminated" by the remote ck separately. burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway.	e signal. Tassum of adding a separa tative signal (as ne questionable. hay be removed b and/or post-proce rement method) n mode 3 while a d sk partner signal's	ne this is the reason for rate clock output does required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	Also, the test pattern generator has only the transmitter pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchi- to "The disturbing signal Vd shall be a sine wave, synchr- clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
burden to PHY design o s may not be a represen ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway.	tative signal (as n ne questionable. nay be removed b and/or post-proce rement method) n mode 3 while a d k partner signal's	required for the test by using more complex essing or measured requries a remote compliant signal is s effect should be	pattern. SuggestedRemedy Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchic to "The disturbing signal Vd shall be a sine wave, synchric clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	volts peak-to-peak differential, and ronous with the test pattern" ronous with the transmit reference
ent meaning may becom " by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway.	ne questionable. hay be removed b and/or post-proce rement method) n mode 3 while a d k partner signal's	by using more complex essing or measured requries a remote compliant signal is s effect should be	Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchic to "The disturbing signal Vd shall be a sine wave, synchric clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	ronous with the test pattern"
" by the remote signal m I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway.	nay be removed b and/or post-proce rement method) r mode 3 while a d k partner signal's	requries a remote compliant signal is s effect should be	Change "The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchic to "The disturbing signal Vd shall be a sine wave, synchric clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	ronous with the test pattern"
I couplers), calibration, a ay be left to the tester. e (regardless of measur d active anyway. n node is tested using test ner into the DUT. The lin	and/or post-proce rement method) r mode 3 while a d k partner signal's	requries a remote compliant signal is s effect should be	"The disturbing signal Vd, shall have amplitude of 5.4 frequency given by one-sixth of the symbol rate synchito to "The disturbing signal Vd shall be a sine wave, synchric clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	ronous with the test pattern"
d active anyway. n node is tested using test ner into the DUT. The lin	mode 3 while a dik partner signal's	compliant signal is s effect should be	"The disturbing signal Vd shall be a sine wave, synchro clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	
n node is tested using test ner into the DUT. The lin	k partner signal's	s effect should be	clock, with frequency given by one-sixth of the symbol voltage of 5.4 volts". Response Response Status C	
node is tested using test her into the DUT. The lin	k partner signal's	s effect should be	voltage of 5.4 volts". Response Response Status C	rate and differential peak-to-peak
node is tested using test her into the DUT. The lin	k partner signal's	s effect should be	Response Response Status C	
ner into the DUT. The lin	k partner signal's	s effect should be		
	to vield clean litt	ter measurements."		
esponse Status C			Cl 96 SC 96.5.4 P 65	L 54 # 85
			Ran, Adee Intel	
			Comment Type T Comment Status R	
80.			This statement is unclear. Should the PMA include AC	C coupling or should it operate with
erent task force.				
			Change "The PMA shall operate with AC coupling to the	he MDI" to "The PMA shall include
			REJECT.	
			The AC coupling to MDI is left to the implementor.	
				30. erent task force. Comment Type T Comment Status R This statement is unclear. Should the PMA include AC external AC coupling? SuggestedRemedy Change "The PMA shall operate with AC coupling to t AC coupling to the MDI". Response Response Status C REJECT.

C/ 96 SC 96.5.4 Ran, Adee	<i>P</i> 66 Intel	L 3	# 86	<i>CI</i> 96 Ran, Adee	SC 96.5.4.4	P 69 Intel	L 18	# 88
Comment Type T Is there no specification SuggestedRemedy	Comment Status R for peak differential output v	voltage?			its are dBm/Hz	Comment Status A even if spectrum analy for measurement settir	zer measurements d	isplay values in dBm.
30 <i>i</i>	pecify minimum and maximu	m values.		Also, ta	ole format is dif	ferent from other tables	and text coincides w	ith borders.
Response REJECT.	Response Status C			SuggestedF	<i>Remedy</i> PSD in dBm/Hi	z instead, in this table a		
Droop is defined as a re	elative measure(Vd/Vpk), no	need to define v	·	Format	the table correct	ctly.		
C/ 96 SC 96.5.4.3 Ran, Adee	P 68 Intel	L 20	# 87	Response ACCEP	T IN PRINCIPL	Response Status C	;	
	Comment Status R red! for comparision, in 1000 n is 1.4 ns (175 mUI) unfiltered			Change (Setting		Bm/Hz in Table 96-6, a	nd Figure 96-22. Kee	p the line after table
While this iitter may be f	feasible in master mode, the	real problem is t	hat iitter in slave	<i>Cl</i> 96 Ran, Adee	SC 96.5.4.5	P 70 Intel	L 37	# 89
mode is very tight too (1	feasible in master mode, the 0 mUI). Meeting this require sign requirements, and does	ement with a reco	vered clock may	Ran, Adee Comment T	vpe T			# 89
mode is very tight too (1 impose very specific de 1000BASE-T.	0 mUI). Meeting this require	ement with a reco on't seem necess	vered clock may ary, in view of	Ran, Adee <i>Comment T</i> Table h	vpe T as only one row	Intel Comment Status		# 89
mode is very tight too (1 impose very specific de 1000BASE-T. Is there a reason for suc	0 mUI). Meeting this require sign requirements, and does	ement with a reco on't seem necessa ed to 1000BASE-	vered clock may ary, in view of T?	Ran, Adee Comment T Table h	ype T as only one row	Intel Comment Status A (no other modes in this	s PHY).	# <u>89</u>
mode is very tight too (1 impose very specific des 1000BASE-T. Is there a reason for suc Also, why use ps in mas	0 mUI). Meeting this require sign requirements, and does ch a tight jitter spec compare	ement with a reco on't seem necessa ed to 1000BASE-	vered clock may ary, in view of T?	Ran, Adee Comment T Table h	vpe T as only one row ssion rate units nt also applies	Intel Comment Status A ((no other modes in this s are Bauds, not Hz.	s PHY).	# 89
mode is very tight too (1 impose very specific des 1000BASE-T. Is there a reason for suc Also, why use ps in mas SuggestedRemedy Change master mode jit	0 mUI). Meeting this require sign requirements, and does ch a tight jitter spec compare	ement with a reco on't seem necessa ed to 1000BASE- ode? be consister	vered clock may ary, in view of T? nt.	Ran, Adee Comment T Table h Transm Comme SuggestedF Delete t	ype T as only one row ssion rate units nt also applies <i>Remedy</i>	Intel Comment Status A (no other modes in this are Bauds, not Hz. to RX frequency tolerar pecify the rate as 66.666	s PHY). nce in 96.5.5.2.	
mode is very tight too (1 impose very specific des 1000BASE-T. Is there a reason for suc Also, why use ps in mas SuggestedRemedy Change master mode jit 0.1 UI unfiltered.	0 mUI). Meeting this require sign requirements, and does ch a tight jitter spec compare ster mode and UI in slave mo	ement with a reco on't seem necessa ed to 1000BASE- ode? be consister	vered clock may ary, in view of T? nt.	Ran, Adee Comment T Table h Transm Comme SuggestedF Delete t Response	ype T as only one row ission rate units nt also applies Remedy he table and sp	Intel Comment Status A (no other modes in this are Bauds, not Hz. to RX frequency tolerar pecify the rate as 66.666 Response Status C	s PHY). nce in 96.5.5.2.	
mode is very tight too (1 impose very specific des 1000BASE-T. Is there a reason for suc Also, why use ps in mas SuggestedRemedy Change master mode jit	0 mUI). Meeting this require sign requirements, and does ch a tight jitter spec compare ster mode and UI in slave mo tter to less than 0.01 UI unfilt	ement with a reco on't seem necessa ed to 1000BASE- ode? be consister	vered clock may ary, in view of T? nt.	Ran, Adee Comment T Table h Transm Comme SuggestedF Delete t Response ACCEP	ype T as only one row ssion rate units nt also applies <i>Remedy</i>	Intel Comment Status A (no other modes in this are Bauds, not Hz. to RX frequency tolerar pecify the rate as 66.666 Response Status C E.	s PHY). nce in 96.5.5.2.	

C/ 96 SC 96.5.5.1	P 70	L 49	# 90	C/ 96	SC 96.7	P 72	L 22	# 92
an, Adee	Intel			Ran, Adee		Intel		
comment Type T Co	omment Status A			Comment Ty	ире Т	Comment Status A		
A normative statement is required and a statement is required and a statement of the statement is required as the statement is requi	juired here.			UTP isn specifiad	t a synonym	of "balanced cabling system", ype of cable, like cat-5 in 1000	it is more specifi DBASE-T?	ic. Is there an external
Change "are received" to "sh	all be received".			Link seg	ment may ha	ve lower length and fewer cor	nnectors.	
Response Rea	sponse Status C			Also, sp	ace required	before "m".		
ACCEPT IN PRINCIPLE.				SuggestedR	emedy			
Change				Change exists.	"one-pair ba	anced cabling system" to "one	e-pair UTP" or a	more specific term if it
"Differential signals received within the specifications of T Electrical Specifications and	ransmitter				"15m" to "up out this subcl	to 15 m" and "four inline conr ause.	nectors" to "up to	four inline connectors
received with a bit error ratio				Response		Response Status C		
less them 10,10 and south to t								
less than 10-10 and sent to t	he PCS after link reset of	completion.		ACCEP	T IN PRINCIE	LE.		
to "Differential signals received within the specifications of T	at the MDI that were tra ransmitter Electrical Spe	ansmitted from a	nave passed through a	See resp Change	oonse to com	ment #514 for "single balance	ed twister-pair".	
to "Differential signals received within the specifications of T link specified in Section 96.7 96 SC 96.6	at the MDI that were tra ransmitter Electrical Spe , shall be received with a <i>P</i> 71	ansmitted from a	nave passed through a	See resp Change "15m" to to "up to fo	oonse to com		·	
to "Differential signals received within the specifications of T link specified in Section 96.7 96 SC 96.6 an, Adee	at the MDI that were tra ransmitter Electrical Spe , shall be received with a <i>P</i> 71 Intel	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo C/ 96	oonse to com	ment #514 for "single balance and "four inline connectors" nectors" throughout this subcla	·	# 93
to "Differential signals received within the specifications of T link specified in Section 96.7 / 96 SC 96.6 an, Adee comment Type T Co	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P71 Intel omment Status A	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>C/</i> 96 Ran, Adee	oonse to com "up to 15 m" ur inline con SC 96.9	ment #514 for "single balance " and "four inline connectors" nectors" throughout this subcla <i>P</i> 75 Intel	ause.	# 93
to "Differential signals received within the specifications of T link specified in Section 96.7 / 96 SC 96.6 an, Adee <i>omment Type</i> T Co Is the management interface uggestedRemedy	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P 71 Intel omment Status A normative or optional?	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>CI</i> 96 Ran, Adee <i>Comment Ty</i>	oonse to com "up to 15 m' ur inline con SC 96.9 pe T	ment #514 for "single balance and "four inline connectors" nectors" throughout this subcla	ause. L 14	
to "Differential signals received within the specifications of T link specified in Section 96.7 / 96 SC 96.6 an, Adee omment Type T Co Is the management interface	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P 71 Intel omment Status A normative or optional?	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>CI</i> 96 Ran, Adee <i>Comment Ty</i>	oonse to com "up to 15 m' ur inline com SC 96.9 ype T sted pair" is r	ment #514 for "single balance" and "four inline connectors" nectors" throughout this subcla P 75 Intel Comment Status A	ause. L 14	
to "Differential signals received within the specifications of T link specified in Section 96.7 96 SC 96.6 an, Adee <i>comment Type</i> T Co Is the management interface <i>tuggestedRemedy</i> Use "may" or "shall" as require <i>tesponse</i> Re	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P 71 Intel omment Status A normative or optional?	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>CI</i> 96 Ran, Adee <i>Comment Ty</i> The "twis <i>SuggestedR</i>	oonse to com "up to 15 m" ur inline conr SC 96.9 ype T sted pair" is r emedy	ment #514 for "single balance" and "four inline connectors" nectors" throughout this subcla P 75 Intel Comment Status A	ause. L 14	
to "Differential signals received within the specifications of T link specified in Section 96.7 / 96 SC 96.6 an, Adee omment Type T Co Is the management interface uggestedRemedy Use "may" or "shall" as required	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P 71 Intel omment Status A normative or optional?	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>CI</i> 96 Ran, Adee <i>Comment Ty</i> The "twis <i>SuggestedR</i>	oonse to com "up to 15 m" ur inline conr SC 96.9 ype T sted pair" is r emedy	ment #514 for "single balance" and "four inline connectors" nectors" throughout this subcla <i>P</i> 75 Intel <i>Comment Status</i> A not a specific point at which de	ause. L 14	
to "Differential signals received within the specifications of T link specified in Section 96.7 27 96 SC 96.6 tan, Adee Comment Type T Co Is the management interface SuggestedRemedy Use "may" or "shall" as require Response Response	at the MDI that were tra ransmitter Electrical Spe , shall be received with a P 71 Intel omment Status A normative or optional?	ansmitted from a ecifications and h a bit error ratio le	have passed through a ess than 10^-10."	See resp Change "15m" to to "up to fo <i>CI</i> 96 Ran, Adee <i>Comment Ty</i> The "twi <i>SuggestedR</i> Change	oonse to com "up to 15 m" ur inline com SC 96.9 ype T sted pair" is r emedy "twisted pair"	ment #514 for "single balance" and "four inline connectors" hectors" throughout this subcla P75 Intel <i>Comment Status</i> A not a specific point at which de	ause. L 14	

Cl 96	SC 96.5.2	P 63	L 1	# 94
Ran. Adee		Intel		

Comment Type E Comment Status A

Two "shall" statements for the test modes, but what is actually required?

"shall only change the data" - impossibly to verify since the characteristics are unly measured in the test modes. Also, these are analog characteristics, and are typically dependent on the transmitted data in some way, so "shall not alter" is impossible to commit to.

"shall be enabled" seems to make a normative requirement on the _enabling_ of the test modes through a register (unspecified one). This is unusual (although the text is apparently iherited from another clause).

I assume that the implementation of test modes is the actual normative requirement.

SuggestedRemedy

Change this paragraph from

"These test modes shall only change the data symbols provided to the transmitter circuitry and not alter the electrical and jitter characteristics of the transmitter and receiver from those of normal operation. These modes shall be enabled by setting a 3-bit control register."

to

"The test modes for the 100BASE-T1 PHY described in Table 96–4 shall be provided. These test modes are controlled by <register or variable name>. The test modes should be implemented by changing the data symbols provided to the transmitter circuitry, to minimize changes to the electrical and jitter characteristics of the transmitter and receiver from those of normal operation."

Response

Response Status C

ACCEPT IN PRINCIPLE.

Modify text to read more similarly to 40.6.1.1.2.

Change

"The test modes for the 100BASE-T1 PHY described in Table 96-4 are provided to allow for testing of the transmitter waveform, transmitter distortion, transmitter jitter, and transmitter droop. The tests modes only change the data symbols provided to the transmitter circuitry and not alter the electrical and jitter characteristics of the transmitter and receiver from those of notmal operation. The shall be enabled by setting a 3-bit control register."

to

"The test modes described below shall be provided to allow testing of the transmitter

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 95

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waveform, transmitter distortion, transmitter jitter, and transmitter droop. The modes shall be enabled by setting bits 2102.13:15 (100BASE-T1 PMA/PMD test control register) of the the PHY Management register set as shown in Table 96-4. These test modes shall only change the data symbols provided to the transmitter circuitry and shall not alter the electrical and jitter characteristics of the transmitter and receiver from those of normal (non-test mode) operation."

Cl 96	SC 9	6.5.2	P 6	3	L 9	# 95
Ran, Adee	9		Intel			
Comment	Туре	E (Comment Status	Α		
	egister tha IDIO etc.	at controls th	nese test modes	is unname	d and undefi	ned. Should be linked
Also,	able is b	adly formatte	ed.			
Suggestee	dRemedy	,				
Add re	egister na	ime, addres	s, etc.			
Forma	at table fo	onts and spa	cing as in other t	ables.		
Response		R	esponse Status	С		
ACCE	PT IN PF	RINCIPLE.				
See re	esponse f	to comment	94.			
		vill be fixed				

C/ 96 Ran, Adee	SC 96.5.3	P 64 Intel	L 18	# 96	C/ 96 Ran, Adee	SC 96.5.4.	4 P 69 Intel	L 4	# 98
Comment 7 Why is	• •	Comment Status A nunication only" stated here?				s no need to e	Comment Status A explain in this document why		
Sugges	sting rephrasing	g this sentence for clarity.			standa	rd are not use	d in this one. This should ren	nain in presentatio	ns.
Suggested							mode 5 needs not be repeate sed in a separate comment.	ed here. The "rand	dom sequence"
Change	е				Suggested		·		
		, or their equivalents, as shown				-	raph, from "When test mode	5" to "the same ca	apability".
		d respective tests, shall be used communication only."	d for measuring	the transmitter	Response		Response Status C		
to					ACCEI	PT IN PRINCI	PLE.		
	e used in stated	Figure 96-17, Figure 96-18, ar respective tests for measuring <i>Response Status</i> C			codes to 3 dis time do voltage defined to do s	{-1, 0, +1} whi crete differen omain template e levels and ris d which gives pectral shapin	se/fall times are not defined ir the flexibility g for EMC emissions, if need	rolts corresponding In this document be led. This mask is o	gly. Other than that, the ecause a PSD mask is one of the necessary
C/ 96 Ran, Adee	SC 96.5.3	P 64 Intel	L 20	# 97		ne capability."	itter compliance. The time do	omain templates, r	iowever, will not allow
Comment T	Гуре Е	Comment Status A			to				
	r statement. Wi	hat does "it" refer to? what does	s "specification	compliant" mean in	pseudo	o random sequ	s enabled, the PHY is forced ience of ternary codes {-1, 0,		
Suggestedi Change	<i>Remedy</i> e "it" to "the tes	t fixtures".			ullerer	illai signai iev	els, is transmitted. "		
		measurements at MDI for all th fication compliant".	ne defined tests	s are the100BASE-T1					
Response ACCEF	PT IN PRINCIPI	Response Status C LE.							
	for all the defin	e components between PHY ar ed tests are the100BASE-T1 P							
"There		e components between PHY ar on compliance can be attained a		as 100BASE-T1 PHY					
							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: Comment ID

Cl 96 SC 96.5.5.3 Ran, Adee	P 71 Intel	L 31	# 99	Cl 96 SC 96.7.1 P 73 L 1 # 101 Ran, Adee Intel Intel
Comment Type E BroadR-Reach Should this be capitalize SuggestedRemedy Change "BroadR-Reach Delete the second insta Consider changing all-c Response ACCEPT IN PRINCIPLE See response to comme Change text to normal c	h 100Mbps COMPLIANT" to ince of "BroadR-Reach". caps to normal case. <i>Response Status</i> C E. ent 577.	"100BASE-T1 C	OMPLIANT".	Comment Type E Comment Status A "Ensure" is absolute verbiage that should be avoided (style manual 10.2.5). Also, will is only used in statements of fact (10.2.2). SuggestedRemedy SuggestedRemedy Change "The transmission parameters contained in this specification ensure that a 1-pair UTP cable link segment will provide a reliable medium" to "The transmission parameters contained in this specification are chosen to enable reliable operation over a 1-pair UTP cable link segment". Response Response Status C ACCEPT IN PRINCIPLE. Comment Status C
Cl 96 SC 96.6 Ran, Adee Comment Type E This subclause seems I	P 72 Intel <i>Comment Status</i> A ike an unnecessary repeat o	L 1	# 1 <u>100</u> ne, 96.6.1	
SuggestedRemedy Delete this subclause.				
Response ACCEPT IN PRINCIPLE	Response Status C E.			
See response to comme	ent 284.			

C/ 96 SC 96.7.2 P 74 L 4 # 102 Ran, Adee Intel Intel	C/ 96 SC 96.8.2 P 74 L 45 # 103 Ran, Adee Intel
Comment Type E Comment Status A Item a is unrelated to link segment characteristics. It contains normative statements about the PHY that are "up to each PHY implementer" - so are not really meaningful. Item b states that the background noise due to thermal is negligible. If so, why mention it at all? there are numerous other negligible effects.	Comment Type E Comment Status A The cross reference links to subclause 96.7.1, which is not a table. It seems that a mated pair of MDI connectors should have different electrical requirement than a full link segment (96.7.1) which contains two such pairs along with possible some additional connectors and cable.
Item c relates to alien crosstalk and is practically an installation-related recommendation. It would be better to move this information to an annex (see 40A for an example). Items c and d use the terms PSANEXT and PSAACRF which are not defined in this clause (the second is completely new in 802.3). These terms should have explicit definitions and abbreviations should be listed in clause 1. Item d has a date string embedded in the text.	Some requirements are listed in the following subclauses. SuggestedRemedy Create the table to summarize the mated pair characteristics and link to it. Response Response Status C ACCEPT IN PRINCIPLE. See response to comment #588
Delete items a and b. Move item c to an annex. State as recommendations, not as normative text. Define necessary terms and abbreviations appropriately.	CI 96B SC 96B P 81 L 6 # 104 Ran, Adee Intel Intel Intel Comment Type E Comment Status R Test modes, even if optional, should be defined in the main clause, not in an annex.
Delete "6 November 2014". <i>Pesponse Response Status</i> C ACCEPT IN PRINCIPLE.	SuggestedRemedy Move these test modes to the appropriate place in clause 96 - most likely the PCS subclause for internal loopback and the PMA subclause for external loopback. Define how these modes are enabled (e.g. MDIO registers).
See response to comment 426 for deleting "6 November 2014".	Response Response Status C REJECT. See response to comment #365.

Cl 96 SC 96.4 P 55 L 44 # 105 Ran, Adee Intel Intel Intel Intel Intel	C/ 96 SC 96.4.3 P 57 L 33 # 106 Ran, Adee Intel Intel Intel Intel
Comment Type T Comment Status A Paragraph style needs improvement.	Comment Type T Comment Status A Signals aren't ternary, they are continuous.
PMA works in both directions, data is both incoming and outgoing. PAM3 usage is repeated twice, the second time looks like a definition. Signaling is not just between MDI/PMA, it goes over the medium too.	SuggestedRemedy Change "ternary PAM signals" to "PAM3 modulated signals" Response Response Status C ACCEPT.
Some electrical specification is embedded here, but there is a separate electrical subclause.	C/ 96 SC 96.4.7 P 61 L 15 # 107 Ran, Adee Intel Intel
The sentence "The PMA sublayer functions apply to the use of single channel operation" doesn't really say anything. SuggestedRemedy Rewrite based on similar existing PMA clauses, for example 40.4.	Comment Type T Comment Status A Doesn't link_status convey the status of the link (not just the medium?) What if the medium is OK but link partner is powered down? SuggestedRemedy SuggestedRemedy Change to a correct description.
Move any electrical specification (e.g. voltage levels) to 96.6. Delete the sentence "The PMA sublayer functions apply to the use of single channel operation."	Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT IN PRINCIPLE.	Change "underlying medium" to "link".
"The PMA provides the interface between the PCS and MDI for the 100BASE-T1 PHY. The primary role of the PMA is to transmit and receive the incoming data stream coming to and from the MDI via PAM3 which is a voltage dependent signaling between MDI/PMA. The PMA uses 3-level Pulse Amplitude Modulation (PAM3) which outputs 3 discrete differentia voltage levels [-1, 0, +1] volts." to "The PMA couples messages from the PMA service interface specified in 96.2.2 onto the 100BASE-T1 physical medium, and provides the link management and PHY Control functions. The PMA provides full duplex communcations employing to and from medium using 3-level Pulse Amplitude Modulation (PAM3). The interface between PMA and the baseband medium is the Medium Dependent Interface (MDI), which is specified in 96.8"	Ran, Adee Intel

C/ 96 SC 96.5.1	P 62	L 28	# 109	C/ 96	SC 96.8.2.2		P 61	L 1	# 110		
Ran, Adee	Intel			Gardner, An	drew	Lii	near Techr	nology Cor			
Comment Type T Comment Status A "shall be able to meet" is unneccesarily open for interpretation. A normative statement is "shall meet".					Comment Type T Comment Status R The MDI RL lower corner frequency specification in 96.8.2.2 is burdensome for data line powered device applications because of the constraint it places on the coupling inductors.						
SuggestedRemedy Delete "be able to".				Increasing the 20dB RL lower corner frequency from 1MHz to 1.8MHz will reduce the required minimum coupling inductance from approx 40uH to approx 22uH with relatively minor impact on PHY performance. This reduction will allow the required current to be							
Response Response Status C ACCEPT IN PRINCIPLE.				delivered to a data line powered device while still meeting application constraints for inductor volume, parasitic resistance (DCR), and self-resonant frequency (SRF).							
				SuggestedRemedy							
See response to comment #226.				modified (802.3b) devices, subclaus	d per below in u) should inco , and the follow se 96.8.2.2 in ata line power		requiremented MDI RL to the should reader to (nt on the coupling specification for be incorporated i Clause 104:	n Clause 96 after		
				Corresp	onding paragr	aph in Clause 104	:				
				104.TBI	D MDI Return	Loss for 100BASE	-T1 Data L	ine Powered Dev	vices		
				from DC	ີ to 66 MHz (່າ				on for all frequencies s when the PHY is		
				Return L 1.8 MHz		<pre>c log(SQRT(1 + (2</pre>	x pi x f x (2	2 x 22 microH)/5(0 Ohm)^2)) for f = DC -		
				1.0 11112	- 20 20 - 20 x k	og(f/30)		1.8 - 30 MHz 30 - 66 MHz			
				Response		Response Stat	tus C				
				REJECT	Г.						
				Require	s further discu	ssions between 80	02.3bw and	d 802.3bu.			

C/ 01 SC 1.4 P4 # 111 C/ 30 SC P 8 # 114 L 14 L3 **RMG** Consulting Grow, Robert RMG Consulting Grow, Robert Comment Type Е Comment Status A Comment Type Е Comment Status A PDF page 18 - Format problems. PDF page 22 - Residual template instruction. SuggestedRemedy SuggestedRemedy p.4, I,15, etc., The term is to be bold, not just the sub clause number. Fix for all inserted Remove editing instruction that isn't an editing instruction but rather instruction on how to definitions. create a draft. p.4, I.16, Missing space after comma Response Response Status C Response Response Status C ACCEPT. ACCEPT. Use commentors suggested remedy. SC C/ 99 P8L1 # 112 C/ 96 SC 96.1.2.3 P16 L 17 # 115 Grow. Robert **RMG** Consulting Grow. Robert **RMG** Consulting Comment Type Comment Status A Е Comment Type E Comment Status A Bank page viii PDF page 30 - Legacy text that should have been edited? (Over each pair makes no SuggestedRemedy sense when the PHY only uses one pair.) Remove. SugaestedRemedv Response Response Status C ' each wire pair ' with 'a wire pair'. ACCEPT. Response Response Status C ACCEPT IN PRINCIPLE. Use commentors suggested remedy. See response to comment #514. P3C/ 01 SC 1.4.183 L2 # 113 Grow, Robert RMG Consulting C/ 99 SC P 1 # 116 L 49 Comment Type Е Comment Status A Grow, Robert **RMG** Consulting PDF page 17 - Incorrect/incomplete change marking. Comment Type Е Comment Status A SuggestedRemedy PDF page 15 - 802.3bk is not a parallel amendment project, it is an approved amendment. Certainly editing instructions should indicate the source for the text or reference for the p.3, I. 2, moved and (not deleted and inserted as underscore), new clause not underscored. instruction, and that would include approved amendments, but this note is primarily for p.3. I.10. double and (probably one moved rather than strikethrough and locate before allowing an editing instruction to point to text from another project yet to be approved. Clause 82. p.3, I.19, old and was deleted rather than strikethrough p.3, I.24, old and was deleted rather SuggestedRemedy than strikethrough p.3. I.26. old and was deleted rather than strikethrough p.3. I.31. old or As 802.3bw is projected to be the next approved amendment, the only valid parallel project was deleted rather than strikethrough p.4, I.2, insert not underscore (and Clause 96) p.4, should be to the revision project P802.3bx and the word 'amendment' should be stricken 1.8, almost got it, the semicolon and space should be underscore from the next to last line and example changed. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE ACCEPT. See response to comment 194. Use commentors suggested remedy.

IEEE P802.3bw D1.2 100BASE-T1 Initial Working Group ballot comments

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 116

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C/ 99 SC P 2 L 7 # 117 Grow, Robert RMG Consulting	C/ 30 SC 30.3.2.1.2 P 8 L 11 # 120 Grow, Robert RMG Consulting
Comment Type E Comment Status A PDF page 16 - Format error.	Comment Type ER Comment Status A PDF page 22 - This is not a change, it is an insert.
SuggestedRemedy References use a comma after the document number not a hyphen. Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy Editing instruction should be an insert with the insert point of the new line identified (e.g., Insert the following after xxxx). Check other approved amendments for lines they might have added to avoid ambiguity of insert point. Similar correction on line 19, 30.3.2.1.3, and line 34, 30.5.1.1.2.
Will conform to appropriate IEEE format.	Response Response Status W ACCEPT IN PRINCIPLE.
C/ 01 SC P 5 L 1 # 118 Grow, Robert RMG Consulting	Similar comment in 63, additionally scrub the remainder of the draft for erroneous editing instructions.
Comment Type ER Comment Status A PDF page 19 - This page does not belong in an ballot draft!	C/ 30 SC 30.5.1.1.11 P 8 L 41 # 121 Grow, Robert RMG Consulting
SuggestedRemedy Remove page 5-6, and probably blank page 7 (I don't remember nor have the time to check if each Change clause is to start on an odd or even numbered page).	Comment Type ER Comment Status A PDF page 22 - This is not shown as a change, it is more like an insert.
Response Response Status W ACCEPT. Pages 5-7 will be deleted.	SuggestedRemedy Either include the rest of the current text for BEHAVIOUR and leave as a change or write as an insert and clearly indicate the insert point. The former is preferred as it is not too long. In either case, check approved amendments to look for any text they might have
Cl 01 SC 1.4 P 4 L 20 # 119 Grow, Robert RMG Consulting Comment Type ER Comment Status R	added. <i>Response Response Status</i> W ACCEPT IN PRINCIPLE.
PDF page 18 - You are perpetuating a violation of IEEE style, a capital B indicates byte, and lower case b indicates bit. This was violated for 8B/10B (should have been 8b/10b) with justification that the inventors used a capital B to describe their encoding. This continues to be a problem and shows up with B being ambiguous (64B/65B).	Similar comment in 305, see the proposed change for this text there.
SuggestedRemedy Follow the style manual, the abbreviation for bit is lower case b.	
Response Response Status W REJECT.	
A lower case b is mathematically correct, however using a Capital B is consistant with other 802.3 Clauses.	

/96 SC P L #1	C/ 96 SC 96.1.2 P 15 L 27 # 124
row, Robert RMG Consulting	Grow, Robert RMG Consulting
omment Type ER Comment Status A	Comment Type ER Comment Status A
Many tables have a format problem. Most notable is row height cutting off text (4 96-5, 96-6, and unnumbered table in 96.5.4.5 and 96.5.5.2).	bles 96- PDF page 29 -The title of the sub clause does not agree with the content of the sub clause. All that is discussed is other parts of IEEE 802.3, not other standards. That title other PHY subclauses typically is referring to the architectural diagram that this draft do
uggestedRemedy Assure all tables follow IEEE style for table heading, footnotes, and properly dis	not include (e.g., standards specifying the ISO OSI Reference model).
table text.	SuggestedRemedy
esponse Response Status W	Change title to 100BASE-T1 architecture.
ACCEPT.	Response Response Status W
All tables in Draft will be scrubbed to follow correct IEEE style.	ACCEPT.
· · · · ·	C/ 96 SC 96.1.2 P15 L 30 # 125
/ 96 SC P L # 1 row, Robert RMG Consulting	Grow, Robert RMG Consulting
-	Comment Type ER Comment Status A
omment Type ER Comment Status A I tried to indicate figures with specific problem in this clause.	PDF page 29 - 1000BASE=T isn't the only gigabit PHY.
	SuggestedRemedy
It isn't clear what function color plays in clause 96 figures, especially for red and on transition lines of some of the figures. The style manual requires that color n	
required to interpret figures.	Response Response Status W
Additionally fast size in many of the forward owned as to be much smaller than 10	ACCEPT.
Additionally font size in many of the figures appears to be much smaller than 12 the figure been shrunk to fit thus decreasing displayed font size? This also hap	nn, nas ns with C/ 96 SC 96.1.2 P 15 L 34 # 126
imported figures. Some (e.g., 96-17) appear to have been copied from some of drawing program or as bit maps. This is a maintenance headache. It is much be	
figures to be drawn in FrameMaker. Import also is a problem for import of bad s	e Comment Type FR Comment Status A
conventions (Figure 96-23 labels a resistor 500O, has a footnote that does not f	PDF page 29 - An architecture doesn't interface to anything. (The architecture includes
style).	MII interface. The specifications to that architecture assume there is an MII. Specifical
There is no need to include product names (Figures 96-15, 96-23). BroadR-Rea	the RS is specified as communicating to lower sublayers via an MII, and the PCS is specified as being at the other side of that MII.) But the MII is an optional interface. I
uggestedRemedy	doubt this one change will cover the number of statements that imply an MII is mandato
Replace all (or almost all) imported figures with drawings made in FrameMaker.	
redrawing correct the problems noted in comment.	SuggestedRemedy
ACCEPT IN PRINCIPLE.	The 100BASE-T1 PHY specifications are written assuming an optional Clause 22 MII. Conformant 100BASE-T1 PHY operation is indistinguishable at the MDI independent of implementation of an MII.
See response to comment #553.	Response Response Status W
	ACCEPT IN PRINCIPLE.
	Line 34, remove "architecture".

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/ 99 SC	P4	L1	# 127	C/ 00 SC 0	P 10	L1	# 130	
Grow, Robert Comment Type ER	RMG Consulti Comment Status A	Ū		Grow, Robert Comment Type T		0		
page iv - The draft fro	ont matter does not follow the IE	EE-SA Style M	anual		his draft includes management ir f 100 Mb/s or 1000 Mb/s to do so			
SuggestedRemedy				registers. Mixing	management between the two of	lifferent register s	baces is a bad idea. It	
Correct order of comp	ponents of front matter.				e of the MII as specified in Claus c), a requirement to report rate o			
Response ACCEPT.	Response Status W				, a requirement to implement the			
C/ 99 SC	P1	L1	# 128		II specifications also include text of this project (as well as for 100			
Grow. Robert	RMG Consulti	-	π 120	Clause 22 for an	y text that would contradict the sp	pecifications of P8	02.3bw. To move	
Comment Type ER	Comment Status A				Clause 45 for this PHY would req (1000BASE-T1 and GEPOF will			
21	ome reason, page numbering re	starts here rath	er than continuous	and Clause 35.)				
SuggestedRemedy				It is important that all three projects review the tradeoffs for management and be consisten in editing legacy clauses. There is a strong case for all three projects taking a similar technical approach to use of these legacy interfaces not carefully examined probably since				
Use continuous page	numbering for front matter.							
Response	Response Status W			1000BASE-T.				
ACCEPT IN PRINCIF	PLE.			SuggestedRemedy				
See response to com	ment #198.			since it is likely th	tions need to be written for Claus ne extended register set will need s will use the extended register s	I to be used, and o		
C/ 99 SC	P 4	L 3	# 129	Response	Response Status U			
Grow, Robert	RMG Consulti	ng		REJECT.				
	Comment Status A fortunately is not correct. The l		publication page		DIO interface has limited extens ne Clause 45 electrical interface			
numbering, not our co	onsistent Arabic page numbers	for balloting.		expected future t	echnologies). That is why Claus	e 45 was created		
SuggestedRemedy				should continue t	o use Clause 45 rather than Cla	use 22.		
Please follow 802.3 b	alloting convention for numberi	ng with future d	rafts.					
Response	Response Status W							
ACCEPT IN PRINCIP	PLE.							
See response to com	ment #198.							
-								

Cl 99 SC P5 L 27 # 131	C/ 01 SC 1.5 P4 L 39 # 133
Grow, Robert RMG Consulting	Grow, Robert RMG Consulting
Comment Type TR Comment Status A page v - Front matter should reflect the plan for the amendment. It is not correct for either amending 802.3-2012, or 802.3-20xx	Comment Type TR Comment Status A PDF page 18 - I doubt the expansion of ABBR is 'expanded version'. SuggestedRemedy
SuggestedRemedy In either case, it is customary to add a description of the amendment (i.e., description of IEEE Std 802.3bw) so that balloters agree on the text to appear in front matter of subsequent amendments. If planned as an amendment to 802.3-2012, then the list of descriptions is incomplete, it should include 802.3bj and 802.3bm in addition to the description of 802.3bw.	Put in correct expansion. Also delete the style reminder in line 41 or put into an Editor's Note. Response Response Status W ACCEPT IN PRINCIPLE.
Response Response Status W ACCEPT IN PRINCIPLE.	C/ 96 SC 96.10 P 76 L 1 # 134 Grow, Robert RMG Consulting
This document will actually be an ammendment to 802.3-2015. List of parallel ammendments will be changed to reflect this.	Comment Type TR Comment Status A PDF page 76 - The absence of the PICS shows that the draft is not technically complete.
C/ 01 SC 1.4 P 4 L 32 # 132 Grow, Robert RMG Consulting	SuggestedRemedy Complete the PICS.
Comment Type TR Comment Status A PDF page 18 - Definitions are not the place for normative requirements.	Response Response Status W ACCEPT.
SuggestedRemedy	See response to comment #571.
Rewrite to remove the shall and assure the normative requirement is in clause 96.	C/ 01 SC 1.4.x P18 L 16 # 135
Response Response Status W ACCEPT IN PRINCIPLE.	Booth, Brad Microsoft Comment Type ER Comment Status
Delete normative requirement. Change the "PHY-Initialization" paragraph as follows On page 18, line 29, Change paragraph topic from" PHY-Initialization" to "FORCE Mode".	Definition of "name" seems to be remnant of original base text. SuggestedRemedy Remove 1.4.x name.
Page 18 line 30, change	Response Response Status C
"A primitive PHY-Initialization procedure is used for MASTER and SLAVE assignment." to	ACCEPT.
" A PHY initialization procedure for FORCE mode with 100Mb/s data rate is used for MASTER and SLAVE assignment to achieve link acquisition between two 100BASE-T1 link partners, see section 96.4.4. Force Mode sets the link control manually."	

C/ 01 SC 1.5 P 18 Booth, Brad Microsoft	L 35	# 136	C/ 01 SC 1.4.377 Booth, Brad	P 17 Microsoft	L 42	# 139
Comment Type ER Comment Status R No abbreviations are being used.			Comment Type T Cor Added text doesn't read correct overriding the 802.3 definition			gh 100BASE-T1 is
SuggestedRemedy Delete 1.5.			SuggestedRemedy			
Response Response Status C REJECT.			Change to read: For 100BASE-T1, the SSD is 96.3.	indicated by three cor	nsecutive ternary	pairs as defined in
There are new abbreviations used in 100BASE-T1. W	/ill be updated i	n next draft version.	Response Res	oonse Status C		
Cl 01 SC 1 P 19 Booth, Brad Microsoft Comment Type ER Comment Status A Notes for editors should be removed from the working SuggestedRemedy Delete pages associated with Notes for editors.	L 1 g group ballot d	# [<u>137</u>]	Similar to comment 140. Char "For 100BASE-T1, a code-grout SSD consists of the code-grout defined in 96.3." to "For 100BASE-T1, the SSD co SSD3) as defined in 96.3.2.3.	up pattern between to ups of 3 consecutive to onsists of three conse	ernary pairs nam	ned as SSD1-3 as
Response Response Status C ACCEPT IN PRINCIPLE.			C/ 01 SC 1.4.183	P 17 Microsoft	L 1	# 140
			Booth, Brad Comment Type TR Cor	mment Status A		
See response to comment #118 C/ 96 SC 96.1.1 Booth, Brad Microsoft	L 21	# 138	Added text doesn't read corre- group used to terminate a nor 100BASE-T1 is overriding tha	mal data transmissior		
Comment Type ER Comment Status A The (UTP) shown in bullet a is not the first instance of SuggestedRemedy	f the use of UT	D.	SuggestedRemedy Change the sentence to read: For 100BASE-T1, the ESD is 96.3.2.3.		nsecutive ternary	pairs as defined in
In 96.1, spell out the first use of UTP and note the acr over one pair of unshielded twisted pair (UTP) cabl			Removed the naming of the te	ernary pairs to simplify	<i>[</i> .	
Response Response Status C ACCEPT IN PRINCIPLE.			Response Resp ACCEPT IN PRINCIPLE.	oonse Status C		
See comment #514			Change "For 100BASE-T1, this deline: group of 3 consecutive ternary			
			to			
			l			

C/ 01 SC 1.4.x P18 L 29 # 141	C/ 45 SC 45.2.1.10 P 26 L 14 # 144
Booth, Brad Microsoft	Booth, Brad Microsoft
Comment Type TR Comment Status A This definition seems to be in the wrong place; especially considering there is a shall	Comment Type TR Comment Status A Missing register bit definition.
statement in the definition.	
SuggestedRemedy	SuggestedRemedy
Remove definition and move text to 96.6.2.	Add register bit definition: When read as a one, bit 1.11.11 indicates that the PMA/PMD is able to operate as a
Response Response Status C	100BASE-T1 PMA/PMD type. When read as a zero, bit 1.11.11 indicates that the PMA/PMD is not able to operate as a 100BASE-T1 PMA/PMD type.
ACCEPT IN PRINCIPLE.	Response Response Status C
See response to comment #132. The paragraph has been rewritten and the normative "shall" statement will be moved to Clause 96.	ACCEPT.
2/45 SC 45.2.1.1 P 24 L 35 # 142	C/ 96 SC 96.1 P 29 L 1 # 145
V 45 SC 45.2.1.1 P 24 L 35 # 142 both, Brad Microsoft	Booth, Brad Microsoft
	Comment Type TR Comment Status R
TR Comment Status A Table 45-4 Missing information. x1xx = Reserved was removed but draft doesn't show what was added. uggestedRemedy	This draft should be sent back to task force ballot as the format of the draft does not comply with the IEEE style guidelines. While there are no TBDs in the draft, the draft is missing information in Clause 45 and is not of the quality the working group normally sees when a draft enters working group ballot.
Add correct information and register bit definition.	SuggestedRemedy
ACCEPT IN PRINCIPLE.	The task force needs to bring this draft up to the quality that should normally be seen by the working group at this phase of the project.
See response to comment #67.	Response Response Status U
	REJECT.
% 45 SC 45.2.1.6 P 24 L 52 # 143 ooth. Brad Microsoft	The suggested remedy does not provide specific suggestions on what changes or
Comment Type TR Comment Status A Table 45-7	improvements must be made.
This edit only shows a small portion of the table and doesn't give reference to its	C/ 01 SC 1.4.142 P16 L 23 # 146
placement relative to the other ports.	Booth, Brad Microsoft
Also missing the bit definition.	Comment Type E Comment Status A Uppercase A
uggestedRemedy Show the full listing so one can visually understand its placement relative to the other port names.	SuggestedRemedy Change the uppercase A in "For 100BASE-T1, A set" to lowercase.
Add the register bit definition.	Response Response Status C
	ACCEPT.
esponse Response Status C	
	see response to comment #420.
See response to comment #247.	
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr CORT ORDER: Comment ID	

C/ 01 SC 1.4.x Booth, Brad	P 18 Microsoft	L 18	# 147	C/ 01 SC 1.4.38 Booth, Brad	1 P 18 Microsoft	L 2	# 149
Comment Type E Comment Use wording that matches what exis	<i>t Status</i> A sts in 802.3.			Comment Type ER Missing a comma a	Comment Status A nd underscore.		
SuggestedRemedy Change to read: 4B3B: For IEEE 802.3, the data enc	coding technique r	used by 100BAS	E-T1 when	SuggestedRemedy Insert a comma afte Response	r 100BASE-T1. Underscore "an	d Clause 96".	
Response Response ACCEPT.	Status C			ACCEPT.	Response Status C		
C/ 01 SC 1.4.142 Booth, Brad	P 16 Microsoft	L 25	# 148	C/ 01 SC 1.4.38 Booth, Brad	2 P 18 Microsoft	L 8	# 150
Comment Type ER Comment	t Status A			Comment Type ER Underscore missing	Comment Status A		
Editing is not following the guidelines	es listed on page 1	15.		SuggestedRemedy			
SuggestedRemedy In 1.4.142, there is no strikethrough In 1.4.157, 1.4.163 and 1.4.183, mis In 1.4.183, there is no strikethrough ", and Clause 96" at end of definition	of the "and" in fro ssing "IEEE Std 80 of the "and" in fro n.	ont of Clause 40 02.3," at end of c ont of Clause 40	definition. and no underscore of		space after "125 MBd" and before Response Status C	ore "for 100BASI	E-T1" should have an
SuggestedRemedy In 1.4.142, there is no strikethrough In 1.4.157, 1.4.163 and 1.4.183, mis In 1.4.183, there is no strikethrough ", and Clause 96" at end of definition In 1.4.313, there is no strikethrough "and" at end of definition. In 1.4.314, there is no strikethrough	of the "and" in fro ssing "IEEE Std 80 of the "and" in fro n. of the "and" in fro	ont of Clause 40 02.3," at end of c ont of Clause 40 ont of Clause 82,	definition. and no underscore of and there is an extra	The semi-colon and underscore.	Response Status C	bre "for 100BASI	E-T1" should have an # [<u>151</u>
SuggestedRemedy In 1.4.142, there is no strikethrough In 1.4.157, 1.4.163 and 1.4.183, mis In 1.4.183, there is no strikethrough ", and Clause 96" at end of definition In 1.4.313, there is no strikethrough "and" at end of definition. In 1.4.314, there is no strikethrough definition. In 1.4.315, the text in the parathesis or show the edits correctly. In 1.4.340, no strikethrough of "and" underscore under the inserted comm In 1.4.350, no strikethrough of "or" b	of the "and" in fro ssing "IEEE Std 80 of the "and" in fro of the "and" in fro of the "and" in fro of the "and" in fro at the end of the " between 100BAS ma.	ont of Clause 40 02.3," at end of cont of Clause 40 ont of Clause 82, ont of Clauses 82 definition does r SE-T2 and 1000B/	definition. and no underscore of and there is an extra 2 to 89 at end of not match 802.3-2012 BASE-T, and no ASE-T, and no	The semi-colon and underscore. Response ACCEPT. C/ 01 SC 1.4.38 Booth, Brad Comment Type ER Missing information SuggestedRemedy	Response Status C 5 P 18 Microsoft Comment Status A	L 11	
SuggestedRemedy In 1.4.142, there is no strikethrough In 1.4.157, 1.4.163 and 1.4.183, mis In 1.4.183, there is no strikethrough ", and Clause 96" at end of definition In 1.4.313, there is no strikethrough "and" at end of definition. In 1.4.314, there is no strikethrough definition. In 1.4.315, the text in the parathesis or show the edits correctly. In 1.4.340, no strikethrough of "and" underscore under the inserted comm	of the "and" in fro ssing "IEEE Std 80 of the "and" in fro of the "and" in fro of the "and" in fro of the "and" in fro s at the end of the " between 100BASE ma. between 100BASE ma. The text at the	ont of Clause 40 02.3," at end of cont of Clause 40 ont of Clause 82, ont of Clauses 82 definition does r SE-T2 and 1000B/	definition. and no underscore of and there is an extra 2 to 89 at end of not match 802.3-2012 BASE-T, and no ASE-T, and no	The semi-colon and underscore. Response ACCEPT. C/ 01 SC 1.4.38 Booth, Brad Comment Type ER Missing information SuggestedRemedy	Response Status C 5 P 18 Microsoft Comment Status A 302.3" in the information inside th Response Status C	L 11	

C/ 00 SC 0 Amason, Dale	Р 2 Freescale	L 23	# 152	C/ 00 SC 0 P 43 L 35 # 155 Amason, Dale Freescale
Comment Type E Use lower case "a" in	Comment Status A phrase "For 100BASE-T1, A se	et of"		Comment Type E Comment Status A PMA_UNIDATA.indicate in paragraph but PMA_UNIDATA_indicate in Fig 96-14
SuggestedRemedy For 100BASE-T1, a se	et of			SuggestedRemedy Make paragraph and figure consistent
Response ACCEPT IN PRINCIP See response to comi				Response Response Status C ACCEPT.
C/00 SC 0	P 4	L 2	# 153	Use PMA_UNIDATA.indicate consistently.
mason, Dale	Freescale			C/ 99 SC P v L 13 # 156 Amason, Dale Freescale
-	Comment Status A ving phrase "In 100BASE-T1"			Comment Type ER Comment Status A Task Force name should be replaced with 100BASE-T1. Same issue for lines 14 & 15.
uggestedRemedy Add comma: In 100BA	ASE-T1			SuggestedRemedy
esponse	Response Status C			Change "Task Force name" to 100BASE-T1
ACCEPT.				Response Response Status C ACCEPT IN PRINCIPLE.
Use commentors suge	gested remedy.			Use commentors suggested remedy on page vii
/ 00 SC 0 mason, Dale	P 4 Freescale	L 3	# 154	C/ 00 SC 0 P 26 L 40 # 157 Amason, Dale Freescale
omment Type E Missing underline for	Comment Status A Clause 96.			Comment Type T Comment Status A
uggestedRemedy Add underline to "and				division symbol included in tx_enable_mii name. Same with tx_error_mii name on line 43 Is this intended?
Pesponse	Response Status C			SuggestedRemedy
ACCEPT.				Remove if not intentional.
See response to com	ment 194.			Response Response Status C ACCEPT IN PRINCIPLE.
·				Not a division symbol, but a ":" with a strikethrough. Since Clause 96 is a new clause ther shouldn't be any strikethrough or underlined text. Draft will be scrubbed of these errors.

C/ 96 SC 96.8.2.2 P 61 L 1 # 158	C/ 99 SC Pi L 28 # 159
welley, Dave Linear Technology Cor comment Type T Comment Status R The MDI RL lower corner frequency specification in 96.8.2.2 is burdensome for data line powered device applications because of the constraint it places on the coupling inductors. Increasing the 20dB RL lower corner frequency from 1MHz to 1.8MHz will reduce the required minimum coupling inductance from approx 40uH to approx 22uH with relatively minor impact on PHY performance. This reduction will allow the required current to be delivered to a data line powered device while still meeting application constraints for inductor volume, parasitic resistance (DCR), and self-resonant frequency (SRF). uggestedRemedy For 100BASE-T1 data line powered devices, it is proposed that the MDI RL requirement be modified per below in order to ease the requirement on the coupling inductors. Clause 104 (802.3bu) should incorporate the modified MDI RL specification for data line powered devices, and the following informative note should be incorporated in Clause 96 after subclause 96.8.2.2 in order to direct the reader to Clause 104: Note: Data line powered devices should refer to Clause 104 for the relevant MDI RL specification. -> Corresponding paragraph in Clause 104:	Brandt, David Rockwell Automation Comment Type E Comment Status A The purpose of this version of the amendment is mis-stated. SuggestedRemedy Replace: The purpose of this version of the amendment is to provide the preview of the draft to the 802.3 Working Group in anticipation of voting the draft to Working Group Ballot during the San Antonio plenary. With: The purpose of this version of the amendment is to provide a draft for initial Working Group ballot. C Response Response Status C ACCEPT IN PRINCIPLE. Change to "This amendment adds Physical Layer specifications and management parameters for 100 Mb/s operation ove a single balanced twisted-pair cable (100BASE-T1). Draft D2.1 is prepared for Working Group Ballot recirculation. This draft expires 6 months after the date of publication or when the next version is published, whichever
104.TBD MDI Return Loss for 100BASE-T1 Data Line Powered Devices The MDI return loss (RL) shall meet or exceed the following equation for all frequencies from DC to 66 MHz (with 100 ohm reference impedance) at all times when the PHY is transmitting data or control symbols. Return Loss (dB): 20 x log(SQRT(1 + (2 x pi x f x (2 x 22 microH)/50 Ohm)^2)) for f = DC - 1.8 MHz 20 for f = 1.8 - 30 MHz 20 - 20 x log(f/30) for f = 30 - 66 MHz Response Response Status C REJECT. See response to comment #110.	Cl 45 SC 2.1.2001 P 12 L 29 # 160 Brandt, David Rockwell Automation Rockwell Automation Comment Type E Comment Status A "Configure" spelled wrong. SuggestedRemedy Spell correctly. Response Response Status C ACCEPT. Change "Configre" to "Configure"

C/ 96 SC 1.2 Brandt, David	P 15 L 50 Rockwell Automation	# 161	C/ 96 SC 1.2.3 Brandt, David	P 16 Rockwell Automa	L 17 # [164
Comment Type E We are not supposed to	Comment Status A o refer to cost.		Comment Type E Typo, missing colon.	Comment Status A	
SuggestedRemedy Replace: "allow for lower cost (off With: "allow for lower quality of	ten lower quality) cabling" cabling"		SuggestedRemedy Replace: "including" With: "including:"		
Response ACCEPT IN PRINCIPLE	Response Status C E.		Response ACCEPT.	Response Status C	
See response to comme	ent #218.		C/ 99 SC 99	P 6	L 18 # 165
C/ 96 SC 1.2.3 Brandt, David	P 16 L 17 Rockwell Automation	# 162	Law, David <i>Comment Type</i> E	HP Comment Status A	
Comment Type E Extra underscores left ir	Comment Status A n text. Should refer to singular wire pair.		<ieee_p802d3bw_w< td=""><td>rking group balloter list supplied in G_names.pdf>.</td><td>n the file</td></ieee_p802d3bw_w<>	rking group balloter list supplied in G_names.pdf>.	n the file
SuggestedRemedy Replace:			SuggestedRemedy See comment.		
"over _each wire pair_" With: "over a one twisted pair	channel"		Response ACCEPT.	Response Status C	
Response	Response Status C		Use commentors sugg	gested remedy.	
ACCEPT IN PRINCIPLE See response to comme			Cl 00 SC 0 Law, David	Р 3 НР	L 0 # [166
C/ 96 SC 1.2.3 Brandt, David	P 16 L 23 Rockwell Automation	# 163	Comment Type E 'IEEE 802.3bw Task F T1 Task Force'.	Comment Status A Force 100BASE-T1 Task Force' sh	ould read 'IEEE 802.3bw 100BASE-
Comment Type E Multiple typos.	Comment Status A		SuggestedRemedy See comment.		
SuggestedRemedy Replace: "Start-of_stream.delimit	er (SSD), End-of-Stream (ESD)"		Response ACCEPT.	Response Status C	
With:	er (SSD), End-of-Stream Delimiter (ESD)"		See response to comr	nent 521.	
Response ACCEPT.	Response Status C				

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

C/ 96 SC 96.3.	2.1 P 25	L 25	# 167	C/ 96	SC 96.1.5	P 17	L 17	# 169
Law, David	HP			Law, David		HP		
Comment Type E	Comment Status A			Comment T	<i>туре</i> т	Comment Status R		
should be represe	S Data Transmission Enablin nted by the mathematical 'no ble 21-1 1-State diagram op	ot equal to' symbol rat		In Figur inputs:	e 96-1 'Functic	nal Block Diagram' the PCS	Transmit Enable	block has the following
	applies to Figure 96-9 'PCS	,	am' and Figure 96-16	TX_EN TX_ER tx_mod	e			
SuggestedRemedy				link_sta	itus			
See comment.				In Figur	re 96-3 'PCS re	ference diagram' the PCS T	ansmit Enable bl	ock has the following
Response	Response Status C			inputs:		Ũ		Ū
ACCEPT.				TXD<3	:0>			
Replace "!=' in dia	arams to "≠"			TX_EN				
	-			TX_ER tx mod				
C/ 96 SC 96.3 . Law, David	2.3.2 <i>P</i> 45 HP	L 45	# 168	link_sta				
Comment Type T	Comment Status A			In Figur	e 96-4 'PCS D	ata Transmission Enabling s	tate diagram' the	nputs are:
Diagram in Figure first line of subclau	the function ENCODE, which 96-6, it is stated that ENCOI ise 96.3.2.3 however states S Transmit State Diagram in	DE follows the rules of the truck of the tru	outlined in 96.3.2.3. The nit function shall	TX_EN TX_ER tx_mod	e			
somewhat circular	, and instead a cross referen e encoding rules are defined	ice to 96.3.2.4 'PCS t	ransmit symbol	Suggestedl Sugges	2	out link_status be removed fi	rom the PCS Trar	smit Enable block in
SuggestedRemedy				Figure	96-1 'Functiona	I Block Diagram', that [2] the	inputs TXD<3:0>	and link_status are
,	ext ' outlined in 96.3.2.3.' sl	hould be changed to i	read ' defined in	Enablin	g state diagran	S Transmit Enable block in F n', [3] Figure 96-4 'PCS Data nsmit Enable state diagram' a	Transmission En	abling state diagram'
Response	Response Status C					enamed 'PCS Transmit Enal		
ACCEPT.				functior sugges	n' including the that subclause	text with the similar text in s use of a shall statement in re 96.3.2.1 be changed to rea area accepted):	espect to the asso	ciated state diagram,
				96.3.2.	1 PCS Transmi	t Enable		
					S Data Transm n in Figure 96-4	nit Enable function shall conf 4.	orm to the PCS T	ransmit Enable State
						al to SEND_N the signals tx_ signals TX_EN and TX_ER i		

When tx_mode is equal to SEND_N the signals tx_enable_mii and tx_error_mii are equal to the value of the MII signals TX_EN and TX_ER respectively, otherwise tx_enable_mii and tx_error_mii are set to the value FALSE.

Comment ID 169

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Response REJECT.	Response St	atus C			C/ 96 Law, David		96.3.2.2.2		<i>Р</i> 41 НР	L 17	# 171
Reject [1]: The	ludes link_status signal link_status signal is ner	eded, and is s	milar to Clause 4			ext state		tx_enable		ay high' yet ac values ' TRUE o	ccording to subclat
link status as a	is similar to Clause 40.	Also there is	no 1 XD<3:0> in	Figure 96-4. Keep	Suggested	dRemed		-			
– Reject [3]: This	is similar to Clause 40.				Sugge packe	est that ' et' be t	and cori				gh till all the bits in emains TRUE unt
	iple [4]: In Figure 96-3 r	emove the co	nnecting line bet	wen 1XD<3:0> to	Response	,		Response	Status C		
	3, change "96.3.2.1 PC	S transmit ena	bling" to "96.3.2	2.1 PCS Data	ACCE	PT.					
FALSE otherwis		nd TX_ER whe	en tx_mode is SE	END_N, and set as							
FALSE otherwis to "The PCS Data Enabling state of tx_enable_mii a respectively, oth	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equ herwise tx_enable_mii a 6.3.2.3	unction shall o When tx_mo ual to the valu	conform to the P0 de is equal to SE e of the MII signa	CS Data Transmission END_N, the signals als TX_EN and TX_ER							
FALSE otherwis to "The PCS Data Enabling state of tx_enable_mii a respectively, oth C/ 96 SC 96 _aw, David	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equ herwise tx_enable_mii a 6.3.2.3	Unction shall of When tx_mo ual to the valu and tx_error_r P 41 HP	conform to the PC de is equal to SE e of the MII signa nii are set to the	CS Data Transmission END_N, the signals als TX_EN and TX_ER value FALSE. "							
FALSE otherwis to "The PCS Data Enabling state of tx_enable_mii a respectively, oth C/ 96 SC 96 .aw, David Comment Type Minor point, but	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equinate herwise tx_enable_mii a 6.3.2.3 T Comment S t I believe that requiring res conformance to its a	When tx_mo ual to the valu and tx_error_r P 41 HP tatus R conformance	conform to the PC de is equal to SE e of the MII signa nii are set to the <i>L</i> 25 to a state diagra	CS Data Transmission END_N, the signals als TX_EN and TX_ER value FALSE. " # [170 am is sufficient, and by							
FALSE otherwis to "The PCS Data Enabling state of tx_enable_mii a respectively, oth C/ 96 SC 96 Law, David Comment Type Minor point, but definition requir messages is no	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equi- herwise tx_enable_mii are 5.3.2.3 T Comment S t I believe that requiring res conformance to its are ot necessary.	When tx_mo ual to the valu and tx_error_r P 41 HP tatus R conformance	conform to the PC de is equal to SE e of the MII signa nii are set to the <i>L</i> 25 to a state diagra	CS Data Transmission END_N, the signals als TX_EN and TX_ER value FALSE. " # [170 am is sufficient, and by							
FALSE otherwis to "The PCS Data Enabling state of tx_enable_mil a respectively, oth C/ 96 SC 96 Law, David Comment Type Minor point, but definition requir messages is no SuggestedRemedy	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equi- herwise tx_enable_mii are 5.3.2.3 T Comment S t I believe that requiring res conformance to its are ot necessary. e text ' and the assoc	When tx_mo ual to the valu and tx_error_r P 41 HP tatus R conformance associated sta	conform to the PC de is equal to SE e of the MII signa nii are set to the <i>L</i> 25 to a state diagra te variables, func	CS Data Transmission END_N, the signals als TX_EN and TX_ER value FALSE. " # 170 am is sufficient, and by ctions, timers and							
FALSE otherwise to "The PCS Data Enabling state of tx_enable_mil a respectively, oth C/ 96 SC 96 Law, David Comment Type Minor point, but definition requir messages is no SuggestedRemedy Suggest that the	se." Transmission Enable f diagram in Figure 96-4. and tx_error_mii are equi- herwise tx_enable_mii are 5.3.2.3 T Comment S t I believe that requiring res conformance to its are ot necessary. e text ' and the assoc	iunction shall of When tx_mo Jal to the valu and tx_error_r P 41 HP tatus R conformance associated stat	conform to the PC de is equal to SE e of the MII signa nii are set to the <i>L</i> 25 to a state diagra te variables, func	CS Data Transmission END_N, the signals als TX_EN and TX_ER value FALSE. " # 170 am is sufficient, and by ctions, timers and							

Its more clear to keep those associated information.

CI 96	SC 96.3.2.3	P 43	L 20	# 172
Law, David		HP		

Comment Type T Comment Status A

Each state of the PCS Transmit State Diagram (Figure 96-6) contains a TSPCD which would appear to be an alias for a message, however TSPCD is not defined in subclause 96.3.2.3.4 'Messages', a subclause of subclause 96.3.2.3 'PCS transmit function'. Instead TSPCD is defined as 'Transmit Symbol Pair Converted Done, synchronized with PCS transmit clock pc_txclk of frequency 33.333 MHz.' in subclause 96.3.3.1.1 'Variables' which is a subclause of 96.3.3.1 'PCS Receive overview'. Based on this the definition of TSPCD seems to be in the wrong subclause, however the transition from each state in the PCS Transmit State Diagram is already controlled by STD (Alias for symb_pair_timer_done) so not sure if this additional time is required.

Subclause 96.3.2.3.2 'Functions' states that the ENCODE function outputs a tx_symb_vector which is defined as a vector of ternary symbols, yet in the Figure 96-6 'PCS Transmit state diagram' the output of the ENCODE function in the state 'TRANSMIT DATA' is assigned directly to tx_symb_pair which is defined as pair of ternary symbols.

The variable tx_symb_pair is only used in Figure 96-6 'PCS Transmit state diagram' and there no reference to it elsewhere, in particular no reference in respect to the 2D to 1D conversation required to create tx_symb_vector, I assume that the conversion is actually performed by TSPCD which should be a function and not a variable, and is described in subclause 96.3.2.4.10 'Generation of symbol sequence'.

Finally there seems to be no use of the message PUDR defined in subclause 96.3.2.3.4 to transfer the tx_symb_vector to the PMA.

SuggestedRemedy

Suggest that:

[1] The definition of TSPCD is moved from subclause 96.3.3.1.1 'Variables' of PCS Receive to subclause 96.3.3.1.2 'Functions' of PCS Transmit.

[2] All instances of TSPCD be changed to TSPC and that the definition of TSPC be changed to read 'Transmit Symbol Pair Convert, this function takes as its argument the value of tx_symb_pair and returns the corresponding tx_symb_vector as defined in subclause 96.3.2.4.10.

[3] The function PUDR is added to each state of Figure 96-6 'PCS Transmit state diagram'.

[4] The definition of the ENCODE function should be change from '... and returns the corresponding tx_symb_vector.' to read '... and returns the corresponding tx_symb_vector.'.

Response Response Status C

ACCEPT IN PRINCIPLE.

[1] & [2]: See response to comment #465.

[3]: See response to comment #462.

[4]: Suggested remedy is the same as the text.

C/ 96	SC 96.3.2.4.10	P 50	L 22	# 173
Law, David		HP		

Comment Type T Comment Status A

Subclause 96.3.2.4.10 'Generation of symbol sequence' is a subclause of 96.3.2.4 'PCS transmit symbol mapping' and as such shouldn't contain receiver requirements.

SuggestedRemedy

Suggest the text 'The receiver implementation shall de-interleave the sequence accordingly' be deledted from this subclause and moved to sucbaluse of subclause 96.3.3.2 PCS 'Receive symbol decoding'.

Response	Response Status	С	
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ACCEPT.

C/ 30	SC 30.3.2.1.2	P 22	L 10	# 174
Law, David		HP		

Comment Type T Comment Status A

To match other enumerations suggest that the description for 100BASE-T1 enumerations reads 'Clause 96 100 Mb/s PAM3' in both subclause 30.3.2.1.2 and 30.3.2.1.3.

SuggestedRemedy

Suggest that in both subclause 30.3.2.1.2 and 30.3.2.1.3, the text 'Clause 96 100 Mb/s Single-pair' be changed to read 'Clause 96 100 Mb/s PAM3'.

Response	Response Status	С
ACCEPT.		

C/ 30	SC 30.5.1.1.2	P 22	L 29	# 175
Law, David		HP		

Comment Type T Comment Status A

To match other enumerations that only support full-duplex (for example 10GBASE-LX4) suggest that the description for 100BASE-T1 enumerations reads 'One-pair twisted-pair balanced copper cabling PHY as specified in Clause 96'.

SuggestedRemedy

Suggest that the text 'Single-pair as specified in Clause 96, full duplex mode' be changed to read 'One-pair twisted-pair balanced copper cabling PHY as specified in Clause 96'.

Response Response Status C

ACCEPT IN PRINCIPLE.

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 96.5.5.3 Remein, Duane	Р 71 Huawei Techn	L 14 ologies	# 176	<i>CI</i> 96 Remein, Du	SC 96.1.2 Jane	P 29 Huawei Tech	L 30 nologies	# 179
Comment Type E Extraneous mark-up: of SuggestedRemedy remove Response	Comment Status A	U		PHYs c 1000BA "IEEE 8 four pai	ess regarding the operate of the s ASE-T uses fou 302.3 1000BAS irs of a channe	Comment Status R e following statement that you ame channel model but 100B r. E-T, or Gigabit, PHY is specif compliant with 40.7. In contra	u are trying to es ASE-T1 uses of fied in Clause 40	ne pair while 0, and it operates over
ACCEPT. See response to commo	ent 258.			Suggestedl Reword	d to:			
Cl 96 SC 96.5.5.3 Remein, Duane Comment Type E	P 71 Huawei Techn <i>Comment Status</i> A	0	# [177	describ	ed in Clause 4 vailable in the 1	/ and the 1000BASE-T PHY s D except that the 100BASE-T 000BASE-T media. Response Status C		
SuggestedRemedy	e allowed to split across a line by marking the work as no-hy		g the key sequence			the similarities and difference re not the same.	es between Clar	use 40 and Clause 96, # 180
Response ACCEPT.	Response Status C			Remein, Du	uane	Huawei Tech		
C/ 96 SC 96.8.2 Remein, Duane	P 74 Huawei Techn	L 45 ologies	# 178	Suggested	Remedy	clude the sub-clause title in a		
Comment Type E Table 96.7.1. should be SuggestedRemedy change to 96.7.1	Comment Status A section ref			other so <i>Response</i>		Physical Coding Sublayer (PC ross references in the draft <i>Response Status</i> C LE.	S) Functions" he	ere and remove any
Response ACCEPT IN PRINCIPLI	Response Status C					d to be reviewed and correct. as from cross references.	Use commentor	rs suggested remedy to
See response to comme	ent #588.							

C/ 96 SC 96.1.2.3 Remein, Duane	P 30 Huawei Techi	L 23 nologies	# 181	<i>Cl</i> 96 <i>SC</i> 96. Remein, Duane	.1	<i>Р</i> 29 Huawei Tecl	L 5 nnologies	# 183
Comment Type E End-of-Stream (ESD)	Comment Status A	0			auses a tabl	<i>mment Status</i> R e is included that map	s PHY variables	to MDIO registers (see
SuggestedRemedy End-of-Stream delimiter	(ESD)			SuggestedRemedy		3, 85-2, 85-3 and othe	. ,	
Response ACCEPT.	Response Status C			Response REJECT.		ponse Status C	ынс.	
Use commentors sugge	sted remedy.			A table similar to	82-6, etc. de	pes not apply to Claus	se 96.	
Ø SC 96.2.1.1.1 Remein, Duane SC SC SC	P 32 Huawei Techi	L 34 nologies	# 182	Cl 96 SC Remein, Duane		<i>P</i> Huawei Tecl	L	# 184
Comment Type E Extraneous hyphen 100 on line 37 SuggestedRemedy	Comment Status A BASE-T1-initialization (3x).	Also have a span	e dash in front of "by"	Comment Type E	start a sente	mment Status A ence with a lower case	Ū	
remove extraneous cha	racters.			SuggestedRemedy				
Response ACCEPT IN PRINCIPLE	Response Status C			Response		is variable is generate sponse Status C	ed"	
Use commentors sugge "100BASE-T1-initializati to				ACCEPT. C/ 96 SC 96.	4.4	P 59	L 5	# 185
"100BASE-T1 initializati	on"			Remein, Duane		Huawei Tecl	-	
and				Comment Type E Shades of past s		<i>mment Status</i> A ₋E BroadR-Reach TR	ANSMITTER"	
change "by" to				SuggestedRemedy suggest just "DIS	SABLE TRAM	SMITTER"		
"by"				Response ACCEPT IN PRII		sponse Status C		
				See response to	commont #F	77		

Remein, Duane Huawei Technologies Comment Type E <				
Comment Type E Comment Status A Variables, counters Comment Status A SuggestedRemedy C ACCEPT IN PRINCIPLE. See response to comment 78. P 63 L 36 # 187 Comment Type E Comment Status A Equation or build be entered using be ander Huawei Technologies Comment Type SuggestedRemedy Use Equation ention and proper style SuggestedRemedy SuggestedRemedy Use Equation ention and proper style Response Response Status W ACCEPT P44 L4 # 19 SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy Use Equation effor and proper style Response Response Status			# 186	
Change to L3 header Use VariableList style for all variables, counters etc. Response Response Status C ACCEPT IN PRINCIPLE. See response to comment 78. V 96 SC 96.5.2 P 63 L 36 # [187] Comment Type E Comment Status A Inconsistent ref to symbol as An. Sometimes A is in italic and sometime it is not. Sometimen It ine 49-52 SuggestedRemedy Use Equation editor and proper style Equation deformed transport status A Seponse Response Status C ACCEPT. Comment Type E V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] V 96 SC 96.5.3 P 64 L 20 # [188] Comment Type E Comment Type E Comment Status A Use of bold font for TAn, TBn is not appropriate. ViggestedRemedy Use o	Comment Type E	Comment Status A		Comment Type ER Comment Status A
ACCEPT IN PRINCIPLE. ACCEPT. See response to comment 78. P63 L36 # 187 M 96 SC 96.5.2 P63 L36 # 187 Temein, Duane Huawei Technologies Huawei Technologies Muawei Technologies Comment Type E Comment Status A Equation should be entered using the FrameMaker equation editor using para style Equation of PLC EquationUnnumbered Sometime is tailar subscripted sometime not. Compare in 28 to line 51. SuggestedRemedy Use Equation of proper style Be consistent. Sometime not is tailar subscripting (to be nicer to your editors). Response Type E Comment Status A Mode SC 96.5.3 P 64 L 20 # 188 Monter Type E Comment Status A Which "t" is it? I would assume the test fixture. Hoavei Technologies Comment Type ER Comment Status A Use of bold font for TAn, TBn is not appropriate. SuggestidRemedy Use character sty				
2/1 96 SC 96.5.2 P 63 L 36 # [187] 2/1 96 SC 96.5.2 P 63 L 36 # [187] Comment Type E Comment Status A Equations should be entered using the FrameMaker equation editor using para style Sometimen 10, Uane Huawei Technologies Same comment line 48-52 Same comment line 48-52 SuggestedRemedy Use Equation of proper style Response Response Status C ACCEPT Issue Technologies Viewein, Duane Huawei Technologies W ACCEPT IN PRINCIPLE. See response Status W Viewein, Duane Huawei Technologies Memoin, Duane Huawei Technologies See response Status W Viewein, Duane Huawei Technologies Memoin, Duane Response Status W ACCEPT P 64 L 20 # [188] Ci 96 SC 96.3.2.4.5 P 48 L 4 # [19] Vindin "It is it? I would assume the test fixture. Mich "It is it? I would assume the test fixture. SuggestedRemedy Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy "The text fixture may include passive components" C AccEPT IN PRINCIPLE		•		
2.9 So 30.2 Point 1.03 Point 1.03 Point Premein, Duane Huawei Technologies Comment Type E Comment Status A Equations should be entered using the FrameMaker equation editor using para style Equation or EU, EquationUnnumbered Same comment line 48-52 SuggestedRemedy Use Equation editor and proper style Response Status C ACCEPT. ACCEPT IN PRINCIPLE. 20 96 SC 96.5.3 P 64 L 20 # 188 Comment Type E Comment Status A Nonsistent vith IEEE style guide (variables should be in itali SuggestedRemedy Use Equation editor and proper style Response Status W Response Response Status C ACCEPT IN PRINCIPLE. Response Status A SuggestedRemedy Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy Change "It may include passive components" Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy Use of bold font for TAn, TBn is and all other variables embedded i text. "The text fixture may include passive components" C "ACCEPT IN PRINCIPLE. Response Status W ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE.	See response to comm	nent 78.		
Comment Type E Comment Status A Equations should be entered using the FrameMaker equation editor using para style Equation or EU.EquationUnnumbered Same comment line 48-52 SuggestedRemedy Use Equation editor and proper style Be consistent I suggest talics to be consistent with IEEE style guide (variables should be in ital without subscripting (to be nicer to your editors). Cl 96 SC 96.5.3 P 64 L 20 # 188 Comment Type E Comment Status A Comment Type E Comment Status A Comment Type E Comment Status A Cl 96 SC 96.5.3 P 64 L 20 # 188 Comment Type E Comment Status A Which "it" is it? I would assume the test fixture. SuggestedRemedy Camment Type E Comments" SuggestedRemedy Change "It may include passive components" Huawei Technologies Comment Type E Comment Status A Vice change "It may include passive components" C SuggestedRemedy Use character style EquationVariables for this and all other variables embedded i text. "The text fixture may include passive			# 187	
Same comment line 48-52 SuggestedRemedy Use Equation editor and proper style Response Response Status ACCEPT. C1 96 SC 96.5.3 P64 L 20 Itage Itage Remein, Duane Huawei Technologies Comment Type E Comment Status A Which "It" is it? I would assume the test fixture. SuggestedRemedy Change "It may include passive components" The text fixture may include passive components" Response Response Status Response Response Status Response Response Status CACEPT IN PRINCIPLE.	Equations should be e	ntered using the FrameMaker equation e	editor using para style	Sometime n is italic subscripted sometime not. Compare In 28 to line 51.
Response Response Status C ACCEPT. ACCEPT. 2/ 96 SC 96.5.3 P 64 L 20 # 188 2/ 96 SC 96.5.3 P 64 L 20 # 188 2/ 96 SC 96.5.3 P 64 L 20 # 188 2/ 96 SC 96.3.2.4.5 P 48 L 4 # 19 Remein, Duane Huawei Technologies Huawei Technologies C/ 96 SC 96.3.2.4.5 P 48 L 4 # 19 SuggestedRemedy Change ''It may include passive components'' Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy "The text fixture may include passive components" C ACCEPT IN PRINCIPLE. See pronse Status W ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Comment Type ER Comment Status A Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy Use character style Equation/Variables for this and all other variables embedded i text. Response Response Status W ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE.	Same comment line 48 SuggestedRemedy	8-52		I suggest italics to be consistent with IEEE style guide (variables should be in italics)
C/ 96 SC 96.5.3 P 64 L 20 # 188 Remein, Duane Huawei Technologies C/ 96 SC 96.3.2.4.5 P 48 L 4 # 19 Comment Type E Comment Status A Which "it" is it? I would assume the test fixture. Huawei Technologies SuggestedRemedy Change Use of bold font for TAn, TBn is not appropriate. Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy "It may include passive components" Use character style EquationVariables for this and all other variables embedded i text. "The text fixture may include passive components" Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. M	Response	,		ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A Which "it" is it? I would assume the test fixture. Comment Type ER Comment Status A SuggestedRemedy Use of bold font for TAn, TBn is not appropriate. Use of bold font for TAn, TBn is not appropriate. SuggestedRemedy Change "It may include passive components" Use character style EquationVariables for this and all other variables embedded i text. "The text fixture may include passive components" Response Response Status W Response Response Status C ACCEPT IN PRINCIPLE. W			# [188	C/ 96 SC 96.3.2.4.5 P 48 L 4 # 191
Change SuggestedRemedy "It may include passive components" Use character style EquationVariables for this and all other variables embedded i text. "The text fixture may include passive components" Response Response Status W Response Response Status C ACCEPT IN PRINCIPLE.	Which "it" is it? I would			Comment Type ER Comment Status A
Response Response Status C ACCEPT IN PRINCIPLE.	Change "It may include passive	e components"		Use character style EquationVariables for this and all other variables embedded in draft
	Response	Response Status C		
See response to comment 97.	_			Use commentors suggested remedy for all variables embedded in the draft.

C/ 96 SC 96.3.2.4.6	P 48	L 17	# 192	C/ 00 SC 0	P 29	L 18	# 195
Remein, Duane	Huawei Techr	nologies		Remein, Duane	Huawei Tech	nnologies	
In table 96-1 are we to assu Assumptions should not be	e required in a standard.	rnary A and Terr	ary B respectively?	Comment Type ER Paragraphs styles v SuggestedRemedy	Comment Status A ary significantly from IEEE Styl	e Guide and curre	ent 802.3 template.
Same issue in Tables 96-2 SuggestedRemedy Change Ternary A and Ter		espectively in all	tables.	Update all paragrap 802.3 template. Iten	h and character styles to comp ns to consider include: s/b in Char Style External (fore		Guide and current
Response R ACCEPT.	Response Status W			Response ACCEPT.	Response Status W		
Use commentors suggeste	d remedy.			Use commentors su with the IEEE style	uggested remedy, paragraphs a guide.	nd characters will	be updated to compl
Cl 96 SC 96.3.2.4.6 Remein, Duane Comment Type ER (P 48 Huawei Techr Comment Status A	L 25 nologies	# 193	C/ 01 SC 1.4.31 Remein, Duane	3 P 17 Huawei Tech	L 5 nnologies	# 196
Table Style does not match SSD/ESD" in tables 96-1 a SuggestedRemedy Convert all tables and table	and 96-2 in bold font?	TY IS THE FOW STAP	ung Usea for	The list is an examp	Comment Status R ions to the examples in 1.4.313 ble and does not exhaustively lis necessary changes can introduc	st all PCS's, Many	other examples exist
Response R	Response Status W			SuggestedRemedy Strike these change	25.		
ACCEPT.							
ACCEPT.	Р 16 Huawei Techr	L 25 nologies	# 194	Response REJECT.	Response Status W		
ACCEPT. C/ 00 SC 0 Remein, Duane	Huawei Techr Comment Status A g text should show additio ple line 25 should read 3, Clause 24, Clause 32, 40" should be in strikeout	nologies ons in underlined Clause 36, and C and that before "	text and ALL removed Clause 40 and Clause Clause 96" in	REJECT. Definitions are still t dictionary online. De	Response Status W aken from published standards ue to this to provide context to t tionary online we include the IE	he definition after	it is included in the
ACCEPT. C/ 00 SC 0 Remein, Duane Comment Type ER C Change marking to existing text in strike-out. For examp "IEEE Std 802.3, Clause 23 96.)" The "and" before "Clause 4 underline. If this convention is not follow SuggestedRemedy	Huawei Techr Comment Status A g text should show additio ple line 25 should read 3, Clause 24, Clause 32, 40" should be in strikeout owed staff editors may inc	nologies ons in underlined Clause 36, and C and that before " correctly change	text and ALL removed Clause 40 and Clause Clause 96" in	REJECT. Definitions are still t dictionary online. De	aken from published standards ue to this to provide context to t	he definition after	it is included in the
ACCEPT. <i>Cl</i> 00 <i>SC</i> 0 Remein, Duane <i>Comment Type</i> ER <i>C</i> Change marking to existing text in strike-out. For examp "IEEE Std 802.3, Clause 23 96.)" The "and" before "Clause 4 underline. If this convention is not folk <i>SuggestedRemedy</i> Review all changed text in the state of the state	Huawei Techr Comment Status A g text should show additio ple line 25 should read 3, Clause 24, Clause 32, 40" should be in strikeout owed staff editors may inc	nologies ons in underlined Clause 36, and C and that before " correctly change	text and ALL removed Clause 40 and Clause Clause 96" in	REJECT. Definitions are still t dictionary online. De	aken from published standards ue to this to provide context to t	he definition after	it is included in 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/ 01 SC 1.4.x	P 18	L 15	# 197	C/ 30 SC 30.	3.2.1.2 P 22	L 11	# 199
Remein, Duane	Huawei Techi	nologies		Remein, Duane	Huawe	i Technologies	
the following after 1.4.x" v For example: "Insert the following after 1.4.95a Automotive Cabli having specified transmis SuggestedRemedy Correct para numbering a Response ACCEPT IN PRINCIPLE.	Comment Status A rectly specified. Should ind where 1.4.x is the para pred 1.4.95: ing: Balanced 100 ohm one ssion characteristics are pro- and editing instructions to for <i>Response Status</i> W hat the new definitions are	ceding the addec pair cable and a pvided in 96.7.1.' ollow current styl	i para. associated hardware e and template.	SuggestedRemedy Review all edition Change - change Insert - adds new instruction should xyz). Response ACCEPT IN PRIM	Change" with "Insert" - they n instructions and assure consecutions existing text using mark-u text to the clause and does to be explicit regarding locations Response Status	tell the staff editors to rect wording and style o not require mark-up, l on of change (i.e., Inse	e is used. however, the editing ert the following after
C/00 SC 0	P 16	L 54	# 198	C/ 96A SC 96A	P 79	<i>L</i> 1	# 200
Remein, Duane	Huawei Techi	nologies		Remein, Duane	Huawe	i Technologies	
Comment Type ER Page numbering is incorr SuggestedRemedy Renumber to match pdf p	Comment Status A ect. og number (or forever be co	onfused).		Comment Type E I believe this is su needed SuggestedRemedy	R Comment Status uperfluous, you mention CL	-	CL45/22 this annex is not
Response ACCEPT IN PRINCIPLE.	and use arabic numerals for			Drop the annex. <i>Response</i> ACCEPT IN PRIN See response to		U	

C/ 45 SC 45.2.1.10	P 26	L 3	# 201	C/ 45	SC 45.2.1	.2001.1	P 26	L 40	# 203
Remein, Duane	Huawei Techi	nologies		Remein, D	uane		Huawei Tech	inologies	
Comment Type ER Comment There is not current row for bit 1.1? "Insert the following rows into Table		of the reserved	<i>Table 45-13</i> row for bit 1.11.11"	For ex	vel 5 headers ample 45.2.1	in Cl 45 shou .2001.1 shou	nent Status A uld include the regis ild read: STER-SLAVE manu	Ū.	
SuggestedRemedy Change editing instruction to read: "Change the identified reserved row In Table 45-13 show: 1.11.15:121 Reserved Ignore ou 1.11.11 100BASE-T1 ability 1 = 0 = PMA/PMD is not able to perfor	n read RO {with PMA/PMD is able	1 in strike-out} to perform 100)BASE-T1 e}	Suggestea	<i>IRemedy</i> gister desig.	to all CI 45 L			2(1.2100.15)
	e Status C		-,	<i>Cl</i> 45 Remein, D			Р 27 Huawei Tech	L 23 Inologies	# 204
See response to comment #544.				Comment Should	<i>Type</i> ER		nent Status A		CL45/22
C/ 45 SC 45.2.1.2001 Remein, Duane	P 26 Huawei Techr	L 17 nologies	# 202	<i>Suggested</i> Chang	<i>IRemedy</i> le to L4 heade	er,			
Para 45.2.1.2001 - 45.2.1.2003.1 a should have the number of the last		g tables are inc		Response ACCE	PT IN PRINC	,	nse Status W		
45.2.1.2001 => 45.2.1.106a Table 45–2001 => Table 45–78a				<i>Cl</i> 96 Remein, D	SC 96.1.5 uane		<i>Р</i> 31 Huawei Tech	L 1 Inologies	# 205
SuggestedRemedy				Comment	Type ER	Comm	nent Status A	Ū	
Renumber remaining para correctly Response Response ACCEPT IN PRINCIPLE.	y. e Status C			should was no	I therefore the	e figure shoul all. Avoid sig	tly on a black & whi d be black & white. gnal names from cro	It would be nice	also if the font size
It is not necessary to change subcl commentors requirement.	ause numbering.	Tables will be r	enumbered per the	Suggestea Conve	2	o B&W. If pos	ssible increase font	t size to 8 pt or b	etter.
				Response ACCE	PT IN PRINC	'	nse Status W		
				See re	sposne to co	mment #553.	. Font size will also	be fixed.	

C/ 96 SC 96.2.4.1 P 35 # 206 C/ 96 P 41 # 208 L 18 SC 96.3.2.2.1 L 8 Remein, Duane Remein, Duane Huawei Technologies Huawei Technologies Comment Type Т Comment Status R Comment Type T Comment Status A From Fig 96-1 it appear that config operates on PMA Receive along with PMA Transmit The phrase "local crystal or oscillator" denotes implementation. SuggestedRemedy SuggestedRemedy Change "PCS and PMA Transmit" to "PCS and PMA" Change to "a local source" Response Response Response Status C Response Status C REJECT. ACCEPT. Current figure is similar to 40.2.4.1. See response to comment 3. C/ 96 SC 96.3.2.1.1 P 40 L 40 # 207 C/ 96 SC 96.3.2.3 P 43 L 46 # 209 Remein. Duane Huawei Technologies Remein. Duane Huawei Technologies Comment Type Comment Status A Comment Type **T** Comment Status A т Variables tx enable mii and tx error mii appear to be divided by nothing. Figure 96-6 should use the proper symbol for assignment in all states. More importantly while the description tells me where these variables are generated it tells Also it has significant white space to left and right and can therefore be increased in size to me nothing about what they mean. avoid using an excessively small font size (in this case 7.5 pt). SuggestedRemedy SuggestedRemedy Remove division sign after variable name. Us proper assignment symbol (see template) Add formal definition of variables Increase overall size. Other suggested guidelines for SD's: tx enable mii When set to FALSE transmission is disabled, when set to TRUE transmission is enabled. Avoid line wrapping by increasing horizontal size of blocks. Avoid crossing connection lines if possible (it is in Fig 96-6). tx error mii When this variable is set to FALSE it indicates an errored transmission, when set to TRUE Enter states from the top, exit from the bottom it indicates a non-errored transmission. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE Figure 96-5 will be redrawn. Accept: Remove division sign. Accept: Add formal definition of variables.

IEEE P802.3bw D1.2 100BASE-T1 Initial Working Group ballot comments

Reject: Change for tx enable mil description.

C/ 96 SC 96.3.2.3.3 P 46 L 52 # 210 Remein, Duane Huawei Technologies Huawei Technologies Huawei Technologies Huawei Technologies	C/ 45 SC 45.2.1.1 P 24 L 24 # 212 Remein, Duane Huawei Technologies
Comment Type T Comment Status R Per this description symb_timer_done is a signal with no duration. "Continuous timer: The condition symb_timer_done becomes true upon timer expiration. Restart time: Immediately after expiration; timer restart resets the condition symb_timer_done." The condition symb_timer restart resets the condition	Comment Type T Comment Status A Table 4. No proposed change illustrated. Missing assignments for values 01xx SuggestedRemedy Table 4. remove section Table 4. Table 4.
Same issue existed in symb_pair_timer on next page. SuggestedRemedy Change "Restart time: Immediately after expiration; timer restart resets the condition	Response Response Status C ACCEPT IN PRINCIPLE. See response to comment #67.
symb_timer_done." to read Restart time: Next clock after expiration; timer restart resets the condition symb_timer_done."	C/ 96 SC 96.5.5.3 P 71 L 31 # 213 Remein, Duane Huawei Technologies Huawei
Response Response Status C REJECT. This is similar to Clause 40.3.3.3. C/ 96 SC 96.3.2.4.2 P 47 L 8 # 211 Remein, Duane Huawei Technologies	More past sins. Are you testing a BroadR-Reach transmitter :-O SuggestedRemedy Change all 3 instance of BroadR-Reach in the draft to 100BASE-T1. Response Response Status C ACCEPT.
Comment Type T Comment Status A This section states that: "Generation of Syn[2:0] and Scn[2:0] adopts the encoding rules,	See response to comment #407.
when applicable, from 40.3.1.3.2." However, Scn is not specified in 40.3.1.3.2, rather it is in 40.3.1.3.3. SuggestedRemedy Perhaps you should be referring to Sgn, Sxn, or should also refer to 40.3.1.3.3. Response Response C ACCEPT IN PRINCIPLE. Change "Generation of Syn[2:0] and Scn[2:0] adopts the encoding rules, when applicable, from 40.3.1.3.2." to "Generation of Syn[2:0] and Scn[2:0] adopts the encoding rules, when applicable, from 40.3.1.3.2." to "Generation of Syn[2:0] and Scn[2:0] adopts the encoding rules, when applicable, from 40.3.1.3.2."	Cl 96 SC 96.6.1 P 71 L 47 # 214 Remein, Duane Huawei Technologies Comment Type T Comment Status A Standard do not have the force of will: "All 100BASE-T1 PHYs will default to" SuggestedRemedy Change will to shall Response Response Status C ACCEPT. ACCEPT. Acception Acception

	P 26	L 32	# 215	CI 96	SC 96.1.2	P 30	L 50	# 218
Remein, Duane	Huawei Techno	ologies		Remein, Du	ane	Huawei Tech	nologies	
Comment Type T Commen enumeration for 1.2100.3:0. Is this b SuggestedRemedy Add key above enumeration	nt Status A bit 0, 1, 2 & 3 or 3,	2, 1 & 0?	Table 45-2001	Mbps da more ex	e following statem ata rate? Or that o pensive will it still	Comment Status A ent imply that such cablin ne should deploy such ca work? (often lower quality) cablir	bling? If the lowe	
ACCEPT.	e Status C	1 2100 2:0 4		<i>SuggestedF</i> Change "also all	to:	formance operation over I	ower quality cab	ing"
Enumeration will be added to Table order.	e 45-2001, for line	1.2100.3:0, to c	clearly indicate the bit	Response		Response Status W		
				ACCEP	T IN PRINCIPLE.			
C/ 45 SC 45.2.1.2002 Remein, Duane	P 27 Huawei Techno	L 1 blogies	# 216		i line 41, change 0BASE-T1 PHY le	everages 1000BASE-T PH	IYs, with parts of	100BASE-TX"
Comment Type T Commen Ln 20 states that "This bit is identica T1." However there appears to be n to 100BASE-T1 PMA/PMDs and bit and all others.	no difference in the	e definition of th plicable to 100E	is bit, applicable only	Replace "Adopt l	Pulse Amplitude M	overages 1000BASE-T an lodulation 3 (PAM3) to he	Ip minimize the t	pandwidth such that
Strike this bit.	d for a bit duplicatii e Status C	ng a minor func	tion of and existing bit.	more ag with "Adopt I	gressive EMC filte	ering and also allow for lo	wer cost (often lo	1 37 0
SuggestedRemedy Strike this bit. Response Response		ng a minor func	tion of and existing bit.	more ag with "Adopt I EMI ove C/ 96	gressive EMC filte Pulse Amplitude M r single balanced SC 96.1.2	ering and also allow for lo lodulation 3 (PAM3) to he twisted-pair" P 29	wer cost (often lo Ip minimize the t <i>L</i> 28	ower quality) cabling"
SuggestedRemedy Strike this bit. Response Response ACCEPT. See response to comment #568. C/ 96 SC 96.1.2 Remein, Duane	P 29 Huawei Techno <i>It Status</i> A ctive "the best part	L 49 blogies	# 217	more ag with "Adopt I EMI ove C/ 96 Remein, Du Comment T Figure 3 SuggestedF	gressive EMC filte Pulse Amplitude M r single balanced SC 96.1.2 ane vpe TR not all PHY specifi 2–1.	ering and also allow for lo lodulation 3 (PAM3) to he twisted-pair" P 29 Huawei Tech <i>Comment Status</i> A cation in 802.3 include a l	wer cost (often lo Ip minimize the t <i>L</i> 28 nologies	wer quality) cabling" bandwidth and reduce # 219

C/ 96 SC 96.2		P 32	L 11	# 220	C/ 96	SC 96.3	3.1	P 51	L1	# 222
Remein, Duane		Huawei Tech	nologies		Remein, D			Huawei Tech	noiogies	
Comment Type TF This statement is preclude single pa c) The 100BASE- does not meet sta MASTER-SLAVE	contrary to the fo ir auto-negotiatio 1 PHY does not t-up time require	on." t use auto-negotia ements of automo	ation due to asso ptive networks. Th	andard will not ciated latency that ne 100BASE-T1 PHY	IEEE IEEE- letters	tate diagram Style Manua SA uses 8-p	is illegible I Table 1 s oint type s d, depend	omment Status A e. The use of 4.5 pt foni states: "Text point size size. All capital letters of ling on the amount of te ocument.	r mixed uppercas	e and lowercase
SuggestedRemedy					Suggested	dRemedy				
Strike the stateme	nt.				Modify	/ SD to confe	orm to IEE	E Style Manual		
Response ACCEPT IN PRIN	,	e Status W			Response ACCE		Re	sponse Status W		
Change "The 100BASE-T" not meet start-up MASTER-SLAVE to "The 100BASE-T"	ime requirement relationship is se	ts of automotive n et by FORCE mod	networks. The 100 de."		INVAL	<i>Type</i> TR Illowing does	C s not desc	P 53 Huawei Tech omment Status A ribe the variable: s are invalid and disreg	C C	# 223
			· ·		Suggested					
Cl 96 SC 96.3 Remein, Duane Comment Type TF If interleaving at th how to de-interlea	Commen e transmitter car		s or TB/TA how do	# 221	descri clear e	ption explair explanation e o publication	is the objection of the objection of the objective obje	ables, functions, counter ect in a clear and concis one or add an editors n ect is missing a clear ar sponse Status W	e way. For those ote "EDITORS N	objects without a IOTE (to be removed
		ie provisioneu pai		1015 1115 !	ACCE	PT IN PRIN	CIPLE.			
SuggestedRemedy Clarify how the re If the answer to th Detection" then 96	s is something li	ike "See 96.3.3.4		tomatic Polarity	See re	esponse to c	omment #	31, definition of INVALI	D has been char	nged.
Response	Respons	e Status W								
REJECT.										
Finding the correct from polarity deter		A order is implem	entation depende	ent, and it is different						

Cl 96 SC 9 Remein, Duane	6.3.3.1.1	<i>Р</i> 53 Huawei Tech	L 27 nologies	# 224	<i>CI</i> 96 Remein, D	SC 96 uane	5.5.1		P 62 Huawei Tec	L 28 hnologies	# 226
RXn Most recently r I can be the mo SuggestedRemedy Clarify which it Response ACCEPT IN PF change "Most r to	received syml post recently re is. RINCIPLE. recently recei	Comment Status A bol pair generated by Po eccived or the one recei esponse Status W ved symbol pair genera	ived at time n bu	it it cannot be both.	applica Systen Electro Suggested Add a Response ACCEI Chang "Syste Electro CISPR	MC requili titions? ns contair magnetic <i>Remedy</i> reference PT IN PR e ms conta magnetic 25, test	ning a comp to an o INCIPL ining a comp methoo	100BASE-T1 Eth patibility (EMC) n external specific <i>Response St</i> LE. 100BASE-T1 Eth patibility (EMC) n	; what are the equirements ation or incl atus W thernet PHY equirements fined to mea	shall be able to r of the automotiv ude a full specific shall be able to of the automotiv	ve applications. cation in this draft.
Remein, Duane Comment Type 802.3 prides its provisioning of	self on it's rep MASTER/SL	P 40 Huawei Tech comment Status R butation as a "plug & pla AVE will interfere with t R or both as SLAVE an	y" technology. T his functionality.	If two PHYs	codes, interfer of the I	or as agi rence. Cl PHY in te	reed be SPR 25 rms of	etween custome 5 test methods h RF immunity an	r and suppli ave been de d RF emissi	er, for the limitati efined to measur ion."	icable local and national on of electromagnetic e the EMC performance bied from ISO6722.
In all previous a was either neg ONUs are slav How will you pr SuggestedRemedy	otiated or ver es). revent fault co MASTER/SI	at I am aware of the MA y obvious (as in PON w onditions due to miscon LAVE functionality. esponse Status C	here the CLT is	the master and all	C/ 96 Remein, D <i>Comment</i> ⁻ Not su	SC 96 uane <i>Type</i> I re if this is naker). Lo	5.2.5.1 E s a das	Comment Si	P 35 Huawei Tec tatus A minus sign s	L 51 hnologies should use an El	# 227
REJECT. This type of net embedded net		ot have "plug & play" fu	nctionality, it is	a pre-configured	Use er <i>Response</i> ACCEI	n dash for PT IN PR	INCIPL	s sign if not alrea <i>Response St</i> LE. nent 556.	, ,		

Cl 96 SC 96.3.2.2.2 P 41 L 15 # 228 Remein, Duane Huawei Technologies	C/ 01 SC 1.4 P 18 L 15 # 231 Remein, Duane Huawei Technologies
Comment Type E Comment Status A What are these packet things? We typically deal only in frames in 802.3. SuggestedRemedy Change 13 instances of packet to frame	Comment TypeEComment StatusA1.4.x name: definition uses Paragraph Tag D3,Definitions. (See Clause 96.)seems a bit out of place.Same for [abbreviations use paragraph tag AcrList,ac] on line 41And for Notes for editors (not to be included in the published draft) pg 19-20
Response Response Status C ACCEPT.	SuggestedRemedy strike both
Cl 96 SC 96.3.2.3 P 42 L 40 # 229 Remein, Duane Huawei Technologies	Response Response Status C ACCEPT.
Comment Type E Comment Status A	Delete Editor's Notes from published draft, and correct tags.
Figure 96-5 crosses page. SuggestedRemedy	C/ 96 SC 96.5.3 P 65 L 45 # 232 Remein, Duane Huawei Technologies
Split into 3 separate figures Response Response Status	Comment Type E Comment Status A Had to hunt for Vd. Add ref to Fig 96-18.
ACCEPT IN PRINCIPLE. See response to comment #294.	SuggestedRemedy per comment, combine para at ln 44 & ln 48 into one para. Or split this section into 3 L4 sections; one for each figure.
Cl 96 SC 96.3.2.4.8 P 49 L 9 # 230 Remein, Duane Huawei Technologies Heat and the second seco	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A This equation should be in para style Equation (or possibly EU,EquationUnnumbered) and should be entered using the FrameMaker equation editor	See response to comment #283.
SuggestedRemedy	C/ 96 SC 96.5.4.2 P 53 L 6 # 233 Remein, Duane Huawei Technologies Huawei Technologies
Use proper Style and Equation Editor	Comment Type E Comment Status A
Response Response Status C	Nice colors. what do they mean?
ACCEPT.	SuggestedRemedy
Equation will be rewritten in FrameMakers equation editor.	remove the nice colors from the matlab code.
	Response Response Status C ACCEPT.
	See response to comment #553.

C/ 96 SC 96.5.4.3 P 68 # 234 C/ 96 P 70 # 236 L 20 SC 96.5.4.5 L 36 Remein, Duane Remein, Duane Huawei Technologies Huawei Technologies Comment Type Е Comment Status A Comment Type Е Comment Status A Is there some special reason for creating this unused three letter mnemonic? Are you going to use a table or text? Same issues pg 71 ln 3 SuggestedRemedy SuggestedRemedy Change Change: No High Pass Filter (HPF) The symbol transmission rate of the 100BASE-T1 PHY in MASTER mode shall be within to the range: No high pass filter to Response Response Status C The symbol transmission rate of the 100BASE-T1 PHY in MASTER mode shall be within ACCEPT. the range shown in Table 96-xxx. Use commentors suggested remedy. Convert the stuff on line 36-38 to a proper table. C/ 96 P 69 # 235 SC 96.5.4.4 L 31 Perform a similar fix on pg 71 ln 3-10. Remein, Duane Huawei Technologies Response Response Status C ACCEPT IN PRINCIPLE. Comment Type Ε Comment Status A When aligning all the ugly table to 802.3 template be sure to use the proper note style See response to comment 442. SuggestedRemedy Change "The receiver shall properly receive incoming data with a symbol rate within the per comment range:" Response Response Status C to ACCEPT. "The receiver shall properly receive incoming data with a symbol rate of 66.666 MBd +-100 ppm." (similar to 40.6.1.2.6) and delete table C/ 96 SC 96.2.2.1 P 32 L 24 # 237 Remein, Duane Huawei Technologies Comment Type Comment Status R т What exactly PMA LINK.request means is not explained. SuggestedRemedy Provide a concise meaning for this primitive. Response Response Status C REJECT. PMA LINK.request is defined in 96.2.1.1, and Semantics of the primitive is defined in 96.2.1.1.1.

IEEE P802.3bw D1.2 100BASE-T1 Initial Working Group ballot comments

C/ 96 SC 96.3.2.4.10 P 50 L 1 # 238	C/ 96 SC 96.4 P 56 L 46 # 240
Remein, Duane Huawei Technologies	Remein, Duane Huawei Technologies
Comment Type T Comment Status A Interesting colors in Fig 96-8. I have not idea what they mean though. Note the IEEE Style Manual states: "Color in figures shall not be required for proper interpretation of the information." SuggestedRemedy Add key to figure after converting to B&W	Comment Type T Comment Status A The following statement will not be testable in most implementation and is probably wrong. "The PMA uses 3-level Pulse Amplitude Modulation (PAM3) which outputs 3 discrete differential voltage levels [-1, 0, +1] volts." Must the differential voltage be -1V or 0V or +1V? Wouldn't -3V, 0V and +3V work? In most cases won't this will be internal to an asic and will probably be two digital bits assuming the value of 01 00 and 10, possibly with 11 == 00?
Response Response Status C ACCEPT IN PRINCIPLE. See response to comment #553.	SuggestedRemedy Change to read: "The PMA uses 3-level Pulse Amplitude Modulation (PAM3) which outputs 3 discrete outputs represented by [-1, 0, +1]."
Cl 96 SC 96.3.3.1.3 P 54 L 3 # 239 Remein, Duane Huawei Technologies	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type T Comment Status A	See response to comment 405.
Expires after counting 36K (+/- 1.8K) pcs_rxclk clock cycles. Most digital timers do not require a precision. Why can't this simply be 36k? SuggestedRemedy	C/ 96 SC 96.4.1 P 56 L 3 # 241 Remein, Duane Huawei Technologies Huawei Technologies Huawei Technologies Huawei Technologies
If the +/- is required convert it to the proper symbol (see current template).	Comment Type T Comment Status A Reference to 40.3.1.1 should probably be 40.4.2.1.
Response Response Status C ACCEPT IN PRINCIPLE. See response to comment 33.	Also no "conditional LPI reference" could be found SuggestedRemedy Change ref per comment, clarify what is meant by conditional LPI reference.
	Response Response Status C ACCEPT IN PRINCIPLE.
	Change "This function adopts 40.3.1.1 without any exceptions, noting that the 36.2.5.1.3 reference is valid and conditional LPI reference is not used." to "This function adopts 40.4.2.1 without any exceptions, noting that the 36.2.5.1.3 reference is valid and optional LPI reference is not used."

C/ 96 SC 96.4.3 Remein, Duane	P 57 Huawei Techi	L 34	# 242	<i>CI</i> 96 Remein, I	SC 96.3.2.3.1 Duane	<i>Р</i> 44 Нuawei Teo	L 31	# 244
	ment Status A	noiogies		Comment		Comment Status A	cinologies	
The text states: "The 100BASE- (PMA Receive) for ternary PAM wire, BI_DA" However Figure 96-14 implies to	T1 PMA Receive fur signals on a single		s a single receiver	Confli "The PCS I	icting times in defi vector of the corre Receive at time n.	nition of RAn ctly aligned most recently		, , ,
SuggestedRemedy				Suggeste	dRemedy			
Make the text and figure agree.					ge to read:			
Response Respo	onse Status C					ctly aligned ternary symbo	ols generated by P	CS Receive at time n."
ACCEPT IN PRINCIPLE.				Response ACCE		Response Status W		
Change "The 100BASE-T1 PMA Receive ternary PAM signals on a single		s a single receiv	er (PMA Receive) for	<i>CI</i> 96 Remein, I	SC 96.3.2.3.1 Duane	P 44 Huawei Teo	L 33 chnologies	# 245
wire, BI_DA"				Comment	Type TR	Comment Status A	-	
to "The 100BASE-T1 PMA Receiv ternary PAM signals on a single balanced twisted-pair, BI_DA"		s a single receiv	er (PMA Receive) for	100B ⁻ The re	s: TRUE or FALS	r generated by the PCS R	eceive function in	96.3.3
96 SC 96.4.7.1	<i>P</i> 61	L 5	# 243		-	plaining the variable as wa	s dono for 100PT	Itranemit
emein, Duane	Huawei Techi	-	# [245			U U		
,	ment Status A			Response	, EPT IN PRINCIPL	Response Status W		
The variable config appears to h Same is true for tx_enable, & tx_	nave two definitions,	here and in 96.	3.2.3.1.			eceive" including the lines	33 to 35 on Page	44.
SuggestedRemedy				C/ 96	SC 96.3.2.4.4	P 4047	L 40	# 246
In all cases define the variable of	once and ref. the def	finition in the se	cond location.	Remein, I		Huawei Teo	-	" 10
esponse Respo	onse Status C			Comment		Comment Status A	0	
ACCEPT IN PRINCIPLE. Remove definition of "config", "t	x_enable", and "tx_r	node" from 96.4	k.7.1.	It is no indica	ot clear what the s ite the first term is	symbol "^" means in this co raised to the power indica as is clearly stated in Cl 4	ited by the 2nd ter	
				Suggeste	e			
				Indica	ate what the symb	ol is being used for using a a XOR logic operator"	a note immediately	vafter each use such
				Response ACCE)	Response Status W		
				Insert	the suggested te	kt inline.		
YPE: TR/technical required ER/ed	litorial required GR/	aonoral required	d T/tochnical E/aditorial C/	nonoral		Com	ment ID 246	Page 60 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: Comment ID

Comment ID 246

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C/ 45 SC 45.2.1.6		L 53	# 247	CI 96	SC 96.8.2.2	2	P 75	L 1	# 249
Remein, Duane	Huawei Techi	nologies		Remein, Dua	ne		Huawei Tech	inologies	
Comment Type TR	Comment Status A		Table 45-7 / coordinate	Comment Ty	pe TR	Comme	ent Status A		
In Table 45-7 the valu	ie 0 1 1 1 0 0 is already used f	or 10GBASE-PF	R-D4						ements specified in
SuggestedRemedy							oss spec. in 96.7. g requirements.	1.3, part of 96.7.	1.
Coordinate with WG sappropriate value and	Secretary and other TF editors	to avoid overlap	o is selection of an	SuggestedR					
Response	Response Status U						96.8.2.2 or being r	nore specific abo	out which parts of
ACCEPT IN PRINCIP	-			96.7.1 a	oply to the co	onnector and	d which do not.		
ACCELLING	LL.			Response		Respon	se Status W		
	Idn't be replicated as other am			ACCEP	IN PRINCI	PLE.			
	to "In the 1.7.5:0 row of Table ert in its place the following line		e line 11xxxx = reserved	See resp	onse to com	iment #588.			
1111xx = reserved fo	r future use			C/ 45	SC 45.2.1.	2002	P 27	L 10	# 250
1111xx = reserved fo 11101x = reserved fo	r future use			C/ 45 Remein, Dua	-	2002	P 27 Huawei Tech	L 10	# 250
11101x = reserved fo 111001 = reserved fo	r future use r future use			Remein, Dua	ne		Huawei Tech		
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE-	r future use r future use r1			Remein, Dua Comment Ty	ne pe TR	Comme	Huawei Tech ent Status A	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved fo	r future use r future use r1	endments have	e been allocated this	Remein, Dua <i>Comment Ty</i> Table 45 interest	ne pe TR –2002 must n.	Commo assign ALL	Huawei Tech ent Status A bits in the register	inologies	
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved fo	r future use r future use r1 r future use m Healy whether any other an	nendments have	e been allocated this	Remein, Dua Comment Ty Table 45 interest Same pr	ne pe TR –2002 must n. oblem exists	Comme	Huawei Tech ent Status A bits in the register	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved fo Note: Check with Ada	r future use r future use r1 r future use am Healy whether any other an r value if they have.	endments have		Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR	ne pe TR –2002 must n. oblem exists emedy	Commo assign ALL	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved fo Note: Check with Ada value and use anothe	r future use r future use r1 r future use am Healy whether any other an r value if they have.	L 47	e been allocated this # 248	Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR Add defi	ne pe TR –2002 must n. oblem exists emedy	Comma assign ALL in Table 45- reserved bits	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved for Note: Check with Ada value and use another C/ 96 SC 96.8.2.1	r future use r future use f1 r future use am Healy whether any other an er value if they have. P 74	L 47		Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR Add defi Response	ne pe TR –2002 must n. oblem exists emedy	Commo assign ALL in Table 45 reserved bits <i>Respon</i>	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved for Note: Check with Ada value and use another C/ 96 SC 96.8.2.1 Remein, Duane Comment Type TR Because you have all in 96.7.1." this statem	r future use r future use r future use m Healy whether any other an r value if they have. P 74 Huawei Techi	<i>L</i> 47 nologies equirements spe oment to 96.7.1	# 248	Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR Add defi Response ACCEP	ne pe TR –2002 must n. oblem exists emedy nition for all i	Comme assign ALL in Table 45- reserved bits <i>Respon</i> PLE.	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved for Note: Check with Ada value and use another C/ 96 SC 96.8.2.1 Remein, Duane Comment Type TR Because you have all in 96.7.1." this statem	r future use r future use r future use m Healy whether any other an r value if they have. <i>P</i> 74 Huawei Tech <i>Comment Status</i> A ready required "the electrical re tent, which is identical at the m	<i>L</i> 47 nologies equirements spe oment to 96.7.1	# 248	Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR Add defi Response ACCEP	ne pe TR –2002 must n. oblem exists emedy nition for all n	Comme assign ALL in Table 45- reserved bits <i>Respon</i> PLE.	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20
11101x = reserved fo 111001 = reserved fo 111000 = 100BASE- 110xxx = reserved for Note: Check with Ada value and use another C/ 96 SC 96.8.2.1 Remein, Duane Comment Type TR Because you have all in 96.7.1." this statem requirement. Specifyi SuggestedRemedy	r future use r future use r future use m Healy whether any other an r value if they have. <i>P</i> 74 Huawei Tech <i>Comment Status</i> A ready required "the electrical re tent, which is identical at the m	<i>L</i> 47 nologies equirements spe oment to 96.7.1	# 248	Remein, Dua Comment Ty Table 45 interest Same pr SuggestedR Add defi Response ACCEP	ne pe TR –2002 must n. oblem exists emedy nition for all n	Comme assign ALL in Table 45- reserved bits <i>Respon</i> PLE.	Huawei Tech ent Status A bits in the register -2003	inologies	Table 45-20

96 SC 96.3.3.1 P 50 L 34 # 251	C/ 96 SC 96.3.3.1.2 P 53 L 40 # 253 Thompson. Geoff GraCaSI
omment Type ER Comment Status A	Comment Type ER Comment Status A
The grammar in this paragraph is pretty bad thus leaving the meaning fuzzy.	The 2nd sentence of this paragraph is too long and is unparsable.
uggestedRemedy	SuggestedRemedy
Replace with the following text (which I believe has the correct meaning): A JAB state	Fix. I can't figure out appropriate text.
machine as shown in Figure 96-10 is implemented to prevent any mis-detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state.	Response Response Status W
esponse Response Status W	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Change
	onange
implemented to make sure the maximum dwelling time in DATA state shall be less than a certain time specified by rcv_max_timer."	indicating whether the six consecutive 2-D ternary symbols after de-interleaving rx_symb_vectors contain symbols corresponding to the idle mode encoding or not, as
to "A JAB state machine, as shown in Figure 96-10, is implemented to prevent any mis- detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer."	specified in 96.3.2." to
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252	to "The check_idle function operates on six consecutive 2-D ternary symbols after de-
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 pmpson, Geoff GraCaSI	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2."
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 pmpson, Geoff GraCaSI	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." C/ 96 SC 96.4.4 P 59 L 5 # 254
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 96 SC 96.3.3.1 GraCaSI GraCaSI 97 ER Comment Status A Plurarity mismatch in 2nd sentence. Plurarity mismatch in 2nd sentence. Science State	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2."
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 96 SC 96.3.3.1 P 52 L 33 # 252 97 SC 96.3.3.1 P 52 L 33 # 252 98 SC 96.3.3.1 GraCaSI # 252 99 SC 96.3.3.1 GraCaSI # 252 99 SC 96.3.3.1 P 52 L 33 # 252 99 SC 96.3.3.1 GraCaSI # 252 99 SC 96.3.3.1 P 52 L 33 # 252 99 SC 96.3.3.1 GraCaSI # 252 # 252 99 SC 96.3.3.1 A P 1000000000000000000000000000000000000	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 SC 96.4.4 <i>P</i> 59 <i>L</i> 5 # 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 96 SC 96.3.3.1 GraCaSI # 252 ompson, Geoff GraCaSI # # 98 Plurarity mismatch in 2nd sentence. # # 99 Plurarity mismatch in 2nd sentence. # # 99 SC 96.3.3.1 P 52 L 33 # 96 SC 96.3.3.1 GraCaSI # # 96 SC 96.3.3.1 A # # 96 SC 96.3.3.1 GraCaSI # # 97 GraCaSI # # # 98 SC 96.3.3.1 A # # 99 SC 96.3.3.1 P 52 L 33 # # 99 SC 96.3.3.1 GraCaSI # # # 99 File Comment Status # # # 99 Change to one of the following two choices (2nd preferred): a) The	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>CI</i> 96 <i>SC</i> 96.4.4 <i>P</i> 59 <i>L</i> 5 <i>#</i> 254 Thompson, Geoff GraCaSI
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 96 SC 96.3.3.1 P 52 L 33 # 252 ompson, Geoff GraCaSI GraCaSI Plurarity mismatch in 2nd sentence. ggestedRemedy Change to one of the following two choices (2nd preferred): a) The received symbol is converted to a 2-D ternary pair (RAn", RBn) first. b) The received symbols are converted to 2-D ternary pairs (RAn," RBn) first.	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 SC 96.4.4 <i>P</i> 59 <i>L</i> 5 # 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 ompson, Geoff GraCaSI P 1000000000000000000000000000000000000	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 <i>SC</i> 96.4.4 <i>P</i> 59 <i>L</i> 5 # 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A State name uses a proprietary trademark unnecessarily
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 96 SC 96.3.3.1 P 52 L 33 # 252 100mpson, Geoff GraCaSI GraCaSI 99 ER Comment Status A 91 Plurarity mismatch in 2nd sentence. Plurarity mismatch in 2nd sentence. ImagestedRemedy Change to one of the following two choices (2nd preferred): a) The received symbol is converted to a 2-D ternary pair (RAn", RBn) first. b) The received symbols are converted to 2-D ternary pairs (RAn," RBn) first. W	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 <i>SC</i> 96.4.4 <i>P</i> 59 <i>L</i> 5 # 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A State name uses a proprietary trademark unnecessarily <i>SuggestedRemedy</i> Change state name from: DISABLE BroadR-Reach TRANSMITTER" TO: "DISABLE
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 96 SC 96.3.3.1 P 52 L 33 # 252 sompson, Geoff GraCaSI GraCaSI omment Type ER Comment Status A Plurarity mismatch in 2nd sentence. PlugestedRemedy Change to one of the following two choices (2nd preferred): a) The received symbol is converted to a 2-D temary pair (RAn", RBn) first. b) The received symbols are converted to 2-D ternary pairs (RAn," RBn) first. esponse Response Status W ACCEPT IN PRINCIPLE. Change "The received symbols are converted to 2-D ternary pair"	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 SC 96.4.4 <i>P</i> 59 <i>L</i> 5 # 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A State name uses a proprietary trademark unnecessarily <i>SuggestedRemedy</i> Change state name from: DISABLE BroadR-Reach TRANSMITTER" TO: "DISABLE TRANSMITTER"
detection of ESD1 and ESD2 that would make the PCS Receive state machine lock up in the DATA state. The maximum dwelling time in DATA state shall be less than a timer specified by rcv_max_timer." 1 96 SC 96.3.3.1 P 52 L 33 # 252 nompson, Geoff GraCaSI GraCaSI omment Type ER Comment Status A Plurarity mismatch in 2nd sentence. uggestedRemedy Change to one of the following two choices (2nd preferred): a) The received symbol is converted to a 2-D ternary pair (RAn", RBn) first. b) The received symbols are converted to 2-D ternary pairs (RAn," RBn) first. esponse Response Status W ACCEPT IN PRINCIPLE. Change	to "The check_idle function operates on six consecutive 2-D ternary symbols after de- interleaving rx_symb_vectors. The check_idle function then returns a Boolean value indicating if these six consecutive symbols are idle symbols, as specified in 96.3.2." <i>Cl</i> 96 <i>SC</i> 96.4. <i>P</i> 59 <i>L</i> 5 <i>#</i> 254 Thompson, Geoff GraCaSI <i>Comment Type</i> ER <i>Comment Status</i> A State name uses a proprietary trademark unnecessarily <i>SuggestedRemedy</i> Change state name from: DISABLE BroadR-Reach TRANSMITTER" TO: "DISABLE TRANSMITTER" <i>Response Response Status</i> W

C/ 96 SC 96.5.1.3 P 62 L 48 # 255 C/ 96 SC 96.5.5.3 P 71 L14 # 258 Thompson, Geoff GraCaSI Thompson, Geoff GraCaSI Comment Type ER Comment Status R Comment Type ER Comment Status A The spec is not for a transmission" but rather a "transmission rate". Text is shown in strikeout and underscore. SuggestedRemedy SuggestedRemedy Change the text from: "The ternary symbol transmission at the MDI shall be.." TO: 'The Remove text styling. ternary symbol transmission rate at the MDI shall be ... " Response Response Status W Response Response Status W ACCEPT. REJECT. Use commentors suggested remedy. See response to comment 78, propose deleting 96.5.1.3. C/ 96 SC 96.5.5.3 P 71 L 28 # 259 C/ 96 SC 96.5.2 P 63 L 12 # 256 Thompson, Geoff GraCaSI Thompson, Geoff GraCaSI Comment Type ER Comment Status A Comment Type ER Comment Status A Resistor values are shown in red and with wrong symbol (font problem?) The word Reserved" in test mode 3 is incorrect. The register is", in fact." not reserved. SuggestedRemedy SuggestedRemedy Change red text to black and make sure that the ohm symbol appears in the PDF and Remove the word "Reserved" printout. Add ohm symbol to Table 00-1 Symbol Table Response Response Status W Response Response Status W ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE See response to comment 80. See response to comment 38. C/ 96 P 64 # 257 SC 96.5.2 L 13 change font coloring to black Thompson, Geoff GraCaSI C/ 96 SC 96.5.5.3 P 71 L 32 # 260 Comment Type ER Comment Status A Thompson, Geoff GraCaSI Random" is a fantasy and not what is specified Comment Type ER Comment Status A SuggestedRemedy Tradename BroadR-Reach" appears. Change the word "random" to "pseudo-random". SuggestedRemedy Response Response Status W Remove tradename (2 places) ACCEPT. Response Response Status W ACCEPT IN PRINCIPLE. Use commentors suggested remedy. See response to comment #407.

IEEE P802.3bw D1.2 100BASE-T1 Initial Working Group ballot comments

Cl 96 SC 96.7 Thompson, Geoff	P 72 GraCaSI	L 22	# 261		C/ 01 SC 1.4.183 Thompson, Geoff	P 17 GraCaSI	<i>L</i> 1	# 264
comment Type ER	Comment Status A hnical wording changes need	led.		reopen	Comment Type TR Regarding the text: thi	Comment Status A s delineates data transmissior	n from idle." is inc	correct in technical
balanced cabling syster	e 100BASE-T1 PHY is desig n. The single pair UTP cable simultaneously. The link segn Response Status C	supports an effe	ctive data rate of		Response	delineates the transition from o Response Status W	data transmissior	n to idle."
ACCEPT IN PRINCIPL					ACCEPT IN PRINCIP See response to comr			
supporting an effective segment for a 100BASE	' is designed to operate over data rate of 100 Mb/s in each E-T1 PHY system is defined a balanced twisted-pair cable,	n direction simulta as in Figure 96-24	aneously. The lin 4 which is compr	k ised	Cl 01 SC 1.4.x Thompson, Geoff Comment Type TR Not a definition becau	P 18 GraCaSI Comment Status R se of the use of the words are	L 17 provided"	# 265
C/ 96 SC 96.10	P 76	L 1	# 262		SuggestedRemedy Change text to read: "	are call out in "		
Thompson, Geoff	GraCaSI				Response	Response Status W		
There is no substance t	Comment Status A o the PICs				REJECT. Strike "automotive cat	bling" definition in 1.4.x. Additio	onally strike asso	ciated keyword in
There is no substance t	to the PICs				Strike "automotive cat frontmatter. "Single ba	bling" definition in 1.4.x. Additional alanced twisted-pair" will be co	,	5
There is no substance t SuggestedRemedy Complete the PICs Pro	to the PICs				Strike "automotive cat frontmatter. "Single ba C/ 00 SC 0 Thompson, Geoff	alanced twisted-pair" will be co <i>P</i> 10 GraCaSI	,	5
There is no substance t SuggestedRemedy Complete the PICs Pro Response ACCEPT. C/ 96 SC 96.2	o the PICs Forma	<i>L</i> 1	# 263		Strike "automotive cat frontmatter. "Single ba C/ 00 SC 0 Thompson, Geoff Comment Type E Lines 17 through 21 T	alanced twisted-pair" will be co	unsistantly used the Letter of Letter Letter to Letter the Letter Letter to Letter the Letter Letter to Le	hroughout draft.
There is no substance t SuggestedRemedy Complete the PICs Pro Response ACCEPT. C/ 96 SC 96.2 Thompson, Geoff Comment Type T	o the PICs Forma <i>Response Status</i> W <i>P</i> 32 GraCaSI <i>Comment Status</i> R	-	# 263		Strike "automotive cat frontmatter. "Single ba C/ 00 SC 0 Thompson, Geoff Comment Type E	alanced twisted-pair" will be co P 10 GraCaSI Comment Status R itles (and perhaps people) are	unsistantly used the Letter of Letter Letter to Letter the Letter Letter to Letter the Letter Letter to Le	hroughout draft.
There is no substance t SuggestedRemedy Complete the PICs Pro Response ACCEPT. Cl 96 SC 96.2 Thompson, Geoff Comment Type T Clause 40 seems like a SuggestedRemedy	o the PICs Forma <i>Response Status</i> W <i>P</i> 32 GraCaSI <i>Comment Status</i> R poor choice for a primitive re	eference.			Strike "automotive cat frontmatter. "Single ba Cl 00 SC 0 Thompson, Geoff Comment Type E Lines 17 through 21 T SuggestedRemedy	alanced twisted-pair" will be co P 10 GraCaSI Comment Status R itles (and perhaps people) are	unsistantly used the Letter of Letter Letter to Letter the Letter Letter to Letter the Letter Letter to Le	hroughout draft.
There is no substance t SuggestedRemedy Complete the PICs Pro Response ACCEPT. Cl 96 SC 96.2 Thompson, Geoff Comment Type T Clause 40 seems like a SuggestedRemedy	o the PICs Forma <i>Response Status</i> W <i>P</i> 32 GraCaSI <i>Comment Status</i> R	eference.		uuse.	Strike "automotive cat frontmatter. "Single ba CI 00 SC 0 Thompson, Geoff Comment Type E Lines 17 through 21 T SuggestedRemedy Get update from staff Response REJECT.	alanced twisted-pair" will be co P 10 GraCaSI Comment Status R itles (and perhaps people) are and correct.	L 17	hroughout draft.
There is no substance to SuggestedRemedy Complete the PICs Pro- Response ACCEPT. Cl 96 SC 96.2 Thompson, Geoff Comment Type T Clause 40 seems like a SuggestedRemedy Take a look at the older Please consider cl. 32.	o the PICs Forma <i>Response Status</i> W <i>P</i> 32 GraCaSI <i>Comment Status</i> R poor choice for a primitive re	eference.		uuse.	Strike "automotive cat frontmatter. "Single ba CI 00 SC 0 Thompson, Geoff Comment Type E Lines 17 through 21 T SuggestedRemedy Get update from staff Response REJECT.	alanced twisted-pair" will be co P 10 GraCaSI Comment Status R itles (and perhaps people) are and correct. Response Status C	L 17	hroughout draft.
There is no substance to SuggestedRemedy Complete the PICs Pro- Response ACCEPT. CI 96 SC 96.2 Thompson, Geoff Comment Type T Clause 40 seems like a SuggestedRemedy Take a look at the older Please consider cl. 32. Response REJECT.	o the PICs Forma <i>Response Status</i> W <i>P</i> 32 GraCaSI <i>Comment Status</i> R poor choice for a primitive re	eference. er match. Refer t	o a 100 Mb/s cla	ause.	Strike "automotive cat frontmatter. "Single ba CI 00 SC 0 Thompson, Geoff Comment Type E Lines 17 through 21 T SuggestedRemedy Get update from staff Response REJECT.	alanced twisted-pair" will be co P 10 GraCaSI Comment Status R itles (and perhaps people) are and correct. Response Status C	L 17	hroughout draft.

Ø 01 SC 1.4.142 P 16 L 23 # 267 hompson, Geoff GraCaSI	Cl 96 SC 96.1 P 31 L 1 # 270 Thompson, Geoff GraCaSI
Comment Type E Comment Status A The text A set of ternary PAM3 symbols" is confusing as a PAM3 symbol is already ternary. uggestedRemedy Change text to read: "A ternary set of PAM3 symbols" Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A Regarding Figure 95-1. The figure is placed incorrectly in the text. It should be no more than 1 page away from the referring text. In this case the referring text is on page 29, line 15. The figure starts on page 31, line 1. SuggestedRemedy Move the figure forward. Response Response Status C
see response to comment #420.	ACCEPT.
P 45 SC 45.2.1.2002.2 P 27 L 33 # 268 hompson, Geoff GraCaSI	Use commentors suggested remedy.
comment Type E Comment Status A CL45/22 Number of modes doesn' match TM def'ns in Table 96-4 In Table 96-4 CL45/22 uggestedRemedy Change rows in Table 96-4 to read: Test mode 6/7 Reserved for future standards use"," operations not yet defined." Response Status C ACCEPT. C C C C	Cl 96 SC 96.3.1 P 39 L 44 # 271 Thompson, Geoff GraCaSI Comment Type E Comment Status A Reference requires reader to go to a different volume of the std. SuggestedRemedy Replace reference with functional text. Response Response Status C ACCEPT. A C A C
P 29 L 9 # 269 hompson, Geoff GraCaSI	Use commentors suggested remedy.
Comment Type E Comment Status A Incomplete in description and grammar. uggestedRemedy Change sentence to read: It is suitable for a variety of applications"," each copper port supports a single twisted pair link segment connection up to 15 meters in length."	
Pesponse Response Status C ACCEPT IN PRINCIPLE.	
Add comma	
See Comment #514	

<i>CI</i> 30 Thompson,	SC 30.5.1.1.11 Geoff	P 22 GraCaSI	L 38	# 272	<i>Cl</i> 96 Thompson	SC 96.5.1 , Geoff	P 62 GraCaSI	L 28	# 275
Comment T	vpe TR	Comment Status A			Comment	Type TR	Comment Status A		
		s of whether or not the me	edia is available				a shall" requirement with nor pond to a PICs entry for this "		eralized requirement.
SuggestedF					Suggestea				
	cal completion issue	object should read when l		E or in TEST mode.	00		all" and say instead that it "is i	ntended to meet'	' the requirement or
Response	•	esponse Status W			provide	e a very specific	test reference that constitute		
ACCEP	T IN PRINCIPLE.	,			•	ements.	Response Status W		
	k Monitor state diag and TEST mode.	gram, Figure 96-16, will co	over all states of	f the PHY, including		PT IN PRINCIPI	LE.		
Change	. "Ear 100048E T	PHYs the enumerations	motob the state	a within the link	See re	sponse to com	nent #226 for changed text.		
integrity To	v state diagram Figu	ıre 96-16."			C/ 96 Thompson	SC 96.5.1.1 , Geoff	P 62 GraCaSI	L 32	# 276
	n Figure 96-16."	e enumerations match the	e states within t	ne link monitor state	Comment		Comment Status A	ations have nor	motrie voluce. This
C/ 96	SC 96.1.2.3	P 30	L 22	# 273	only ca	alls out test meth	est specification. Test specific hod information.	ations have para	imetric values. This
Thompson,	Geoff	GraCaSI			Suggestea				
Comment T	J 1 ² -	Comment Status A	(CD and b) was	never a feature of 100	Add th	-	lue/limit that is to be used by e.	the test as the pa	iss/fail limit, either
Mb/s op					Response		Response Status W		
SuggestedF	Remedy				ACCE	PT IN PRINCIPI	LE.		
Delete t	the words or carrier	extension"			See re	sponse to com	nent #595 for changed text.		
Response	F	esponse Status W				•	5		
ACCEP	PT.				Cl 96 Thompson	SC 96.5.1.2 Geoff	P 62 GraCaSI	L 40	# 277
C/ 96	SC 96.3.3.1.1	P 52	L 45	# 274	Comment		Comment Status A		
Thompson, Comment T		GraCaSI			This is	51	est specification. Test specific	cations have para	metric values. This
-		output value if the 3 bits	is random" or of	therwise?	Suggestea				
SuggestedR	Remedy				Add th		lue/limit that is to be used by a	the test as the pa	iss/fail limit, either
		indom (I guess) in this co	ntext and add a	s allowed values.	Response		Response Status W		
Response	F T IN PRINCIPLE.	esponse Status W			ACCE	PT IN PRINCIPI	•		
ACCEP					See re	enoneo to com	nent #596 for changed text.		
	ponse to comment	# 31, definition of INVALI	D has been cha	inged.					

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

2/12/2015 8:15:27 AM

C/ 96 SC 96.5.2 P 63 L 3 # Thompson, Geoff GraCaSI	C/ 96 SC 96.5.2 P 63 L 27 # 279 Thompson, Geoff GraCaSI
Comment Type TR Comment Status A a 3 bit control register"? Just any one?	Comment Type TR Comment Status A This is all flim flam
SuggestedRemedy This needs to point ot the control register specification with a hot link. Where register specified?	SuggestedRemedy Specify the test in such a way that it is relevant to the in use" transmit waveform and its functional requirement with fully specified test conditions. Make the test mandatory.
Response Response Status W ACCEPT IN PRINCIPLE.	Response Response Status W ACCEPT IN PRINCIPLE.
Modify text to read more similarly to 40.6.1.1.2. Change "The test modes for the 100BASE-T1 PHY described in Table 96-4 are provi-	Remove the whole paragraph. Also, in table 96-4, remove "Test mode 3 – Transmit jitter test in SLAVE mode (reserved)", and insert "Reserved, operations not defined". Entire task force is offended!
for testing of the transmitter waveform, transmitter distortion, transmitter jitter transmitter droop. The tests modes only change the data symbols provided to transmitter circuitry and not alter the electrical and jitter characteristics of the and receiver from those of notmal operation. The shall be enabled by setting	
register." to	Comment Type TR Comment Status A What does the term simultaneously to all transmitters" mean in this context"," i.e. only one transmitter? Is it residual text from 1000BASE-T? Or does it mean the transmitter at each

"The test modes described below shall be provided to allow testing of the transmitter waveform, transmitter distortion, transmitter jitter, and transmitter droop. The modes shall be enabled by setting bits 2102.13:15 (100BASE-T1 PMA/PMD test control register) of the the PHY Management register set as shown in Table 96-4. These test modes shall only change the data symbols provided to the transmitter circuitry and shall not alter the electrical and jitter characteristics of the transmitter and receiver from those of normal (non-test mode) operation."

SuggestedRemedy

Either remove this text as obsolete or provide a proper specification for the relationship between the two test clocks.

end of the link. If the latter then I believe there needs to be a relati

Response Response Status W

ACCEPT IN PRINCIPLE.

This is obsolete text from Clause 40. Remove "The ternary symbol sequence shall be presented simultaneously to all transmitters."

C/ 96 SC 96.5.3 Thompson, Geoff	P 64 GraCaSI	L 19	# 281	Cl 96 Thompson	SC 96.5.3 n, Geoff	P 65 GraCaSI	L 45	# 283
Comment Type TR What does the term for consider?	Comment Status A	nean here? What	at else is there to		isturbing voltage	Comment Status A is mentioned but there is no he disturbing voltage is to be		ever in the diagrams
SuggestedRemedy Clarify and complete.				Suggeste Fully	dRemedy specify the test.			
Response ACCEPT IN PRINCIPL	Response Status W E.			Response ACCE	EPT IN PRINCIPI	Response Status WLE.		
Change				Chan	ge			
specification for data co to "The fixtures shown in	respective tests, shall be use ommunication only." Figure 96-17, Figure 96-18, a respective tests for measurin	nd Figure 96-19	or their equivalents,	to "In Fig transr	gure 96-18, the d	e-sixth of the symbol rate syr listurbing signal, Vd, shall be ck, with frequency given by o ak voltage of 5.4 volts".	a sine wave, synd	chronous with the
C/ 96 SC 96.5.3 Thompson, Geoff	P 64 GraCaSI	L 29	# 282	J				
<i>Comment Type</i> TR A high impedance" pro	Comment Status A be is called for with no specifi	cation.						
SuggestedRemedy Specify a minimum inp these tests.	ut impedance that will satisfy	the "high Impeda	ance" requirement of					
Response ACCEPT IN PRINCIPL	Response Status W E.							
Add "with resistance > Similar to Clause 55 10	10KOhm and capacitance < ²	1pF" to Figures §	6-17 and 96-18.					

Ø 96 SC 96.6.1 P 71 L 45 # 284 hompson, Geoff GraCaSI	C/ 96 SC 96.3.2.3 Thompson, Geoff	P 41 GraCaSI	L 35	# 285
omment Type TR Comment Status A This section claims to be about M/S resolution" but it offers no specifications whatsoever about the behavior when there is actually is a conflict.	Comment Type E areis" appears in the text v clean version of the draft	Comment Status A with underscore and strike	out on what is su	oposed to be the
iggestedRemedy	SuggestedRemedy			
Specify either a resolution mechanism or at least the behavior in each situation. i.e. what	Replace "areis" with unde	erscore and strikeout in the	e text with a plain	text "is"
happens when both are in SLAVE mode (trivial) or when both are in MASTER mode. The later needs to be multi-vendor known behavior for troubleshooting purposes.	Response F	Response Status C		
esponse Response Status W	ACCEPT.			
ACCEPT IN PRINCIPLE.	Change			
Change substause 96.6.1 title to "MASTER SLAVE configuration"	"areis"			
Change subclause 96.6.1 title to "MASTER-SLAVE configuration"	to "is"			
Change "All 100BASE-T1 PHYs will default to configure as SLAVE upon power up or reset until a management system (for example, processor/micro controller) configures it to be	Appropriate markups will b	be applied.		
MASTER.	C/ 96 SC 96.3.2.3	P 41	L 29	# 286
MASTER-SLAVE assignment for each link configuration is necessary for establishing the	Thompson, Geoff	GraCaSI		
timing control of each PHY."	Comment Type E	Comment Status A		
То	Grammar. Incorrect article	e in the 2nd sentence		
"MAACTED OLANE assignment for each link configuration is pressed on the	SuggestedRemedy			
"MASTER-SLAVE assignment for each link configuration is necessary for establishing the timing control of each PHY. In 100BASE-T1 one PHY shall be configured as MASTER and	Change text fromover a	wire pair BI_DA." to "ov	er the wire pair B	I_DA."
one PHY shall be configured as SLAVE to operate. In case both PHYs are configured to be MASTER or SLAVE, operation is undefined."	Response F ACCEPT.	Response Status C		
	Use commentors suggeste	ed remedy.		
	C/ 96 SC 96.3.2.3	P 41	L 30	# 287
	Thompson, Geoff	GraCaSI		
	Comment Type E	Comment Status A		
	Grammar. Incorrect article	e in the 3rd sentence.		
	SuggestedRemedy			
	Change text from The inte index," introduced"	ger", n," is time index intro	duced" to "The	integer", n, is a time
	Response F ACCEPT.	Response Status C		
	Use commentors suggeste	ed remedy.		
PE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/	eneral	Comme	ent ID 287	Page 69 of 144

Cl 96 SC 96.3.2.3 Thompson, Geoff	P 41 GraCaSI	L 31	# 288	<i>Cl</i> 96 Thompson		96.3.2.3	P 41 GraCaSI	L 37	# 291
	Comment Status A generally poor grammar and c	onvoluted const	ruction.		37 to en	E d of parag arison an	Comment Status A rraph) Comparison text is unn d simplify	ecessary to the	e specification.
sequences of vectors	ving: In the normal mode of op using the encoding rules defin icated by the parameter tx_en <i>Response Status</i> C	ed for the idle m		specia Idle or determ <i>Response</i>	ce old te I symbo Data sy nine whe	ext starting I pair (0", (mbols. Th	with Unlike" with the followin 0) that is not used by nerefore, at the end of data pa 3 or ERR_ESD <i>Response Status</i> C	0	
SuggestedRemedy Replace with the follov	P 41 GraCaSI Comment Status A generally poor grammar and r ving: Upon the assertion of tx_ onsecutive symbols to PMA." v	enable", the PC		ACCE CI 96 Thompson Comment This de Suggested	SC s , Geoff <i>Type</i> pesn't se		P 41 GraCaSI Comment Status A tually be a sentence.	L 51	# 292
preamble." Response ACCEPT.	Response Status C			at eac	h symbo	ol period, v	has the value SEND_N", PC: which represents data," special d in the following subsections <i>Response Status</i> C	al control symb	
Cl 96 SC 96.3.2.3 Thompson, Geoff Comment Type E Missing article SuggestedRemedy	P 41 GraCaSI Comment Status A	L 34	# 290	period data, s	e /IODE h , that ar	e represer	ue SEND_N, PCS Transmit g		
Change text from: spe <i>Response</i> ACCEPT.	cial code ESD (or" TO: "a sp <i>Response Status</i> C	ecial code ESD	(or"	period data, s	, which	represents	ue SEND_N, PCS Transmit g s nbols like SSD/ESD or IDLE s		

C/ 96 SC 96.3.2.3 Thompson, Geoff	P 42 GraCaSI	L 1	# 293	Cl 96 SC 96.3.3.1 Thompson, Geoff	P 52 GraCaSI	L 37	# 296			
Comment Type E Missing article	Comment Status A			Comment Type E Split last sentence in two	Comment Status A o for clarity					
SuggestedRemedy Change: transmitted sy	mbols" TO: "the transmitted	symbols"		SuggestedRemedy Change the text:error'	"," that are" TO: "error.	These", in turn,"	are"			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C					
Use commentors sugge	ested remedy.			Change						
C/ 96 SC 96.3.2.3 Thompson, Geoff	P 42 GraCaSI	L 44	# 294	"The received ternary pairs (RAn, RBn) are decoded to generate signals rx_data[2:0], rx_dv, and rx_error, that are processed through 3B4B conversion to generate signals RXD[3:0], RX_DV and RX_ER at the MII." to						
Comment Type E Missing title for figure. V Figure 96-5a, Figure 96	Comment Status A When figures split across pag S-5b) on each page.	ges there needs	s to be figure titles (e.g.	"The received ternary pa decoded to generate sig	airs (RAn, RBn) are ınals rx_data[2:0], rx_dv, an 3 conversion to generate sig					
SuggestedRemedy Solit and sub-title figure	to accommodate pagination			C/ 96 SC 96.3.3.4	P 54	L 32	# 297			
Response	Response Status C			Thompson, Geoff	GraCaSI					
ACCEPT.				Comment Type E	Comment Status A					
C/ 96 SC 96.3.2.3	P 43 GraCaSI	L 20	# 295	The words as an optional feature" are redundant (per the heading) and not necessary to the this text. They just make the sentence that much more difficult to parse.						
hompson, Geoff				SuggestedRemedy						
<i>comment Type</i> E	Comment Status A ne entrace to stats be at the to	on and flow out	the bottom or if	Delete the words: "as an optional feature" from the first sentence.						
necessary, the sides.		Sp and now out		Response ACCEPT.	Response Status C					
uggestedRemedy				ACCEPT.						
Re do the layout of the	state diagram when it is redra	awn for Sponso	r Ballot.	Change		a ha dana in DOG				
Response	Response Status C			"During training, the automatic polarity detection can be done in PCS Receive as an optional feature with proper decoding procedures."						
ACCEPT IN PRINCIPLE	E.			to						
Figure 96-6 will be redra	awn.			"During training, the automatic polarity detection may be done in PCS Receive with prope decoding procedures."						

C/ 96 SC 96.4	P 55	L 50	# 298	Cl	SC O	P1	L 2	# 301		
hompson, Geoff	GraCaSI			Thompso	n, Geoff	GraCaSI				
Comment Type E	Comment Status A			Commen	t Type ER	Comment Status A				
The text about single channel operation" seems strangely out of place here. There isn't a hint of anything other than single channel operation in the entire clause. I believe that the text is unecessary for a baseband PHY.					Says that this is an Amendment of 802.3-2012". It actually will be an amendment of 802 2015.					
SuggestedRemedy				00	edRemedy					
Remove the sentence: "The PMA sublayer functions apply to the use of single channel operation."					Assure that all references outside the clause are current wrt the revision. Update the reference on the cover page WHEN the revision goes to RevCom. Track changes of the revision to make sure they do not affect or are incorporated into the draft.					
Response	Response Status C			Response	е	Response Status W				
ACCEPT.				ACC	EPT.					
C/ 96 SC 96.4.2	•••	L 20	# 299	Use commentors suggested remedy when the revision goes to RevCom.						
Thompson, Geoff	GraCaSI			C/ 00	SC 0	P 2	L 36	# 302		
Comment Type E	Comment Status A			Thompso	n, Geoff	GraCaSI				
In the 3rd line of the	paragraph the term signals" sho	ould be singular.		Commen	t Type ER	Comment Status A				
SuggestedRemedy				Text	that should acco	mpany table is missing.				
In the 3rd line chang	e "signals" to "signal".			Suaaeste	edRemedy					
Response ACCEPT.	Response Status C			00		: List of special symbols				
Use commentors suggested remedy.					The following is a list of special symbols and operators that may be used within this standard. When printing this document, this table should be checked to see that each printed symbol is appropriate for					
C/ 96 SC 96.5.3	P 64	L 29	# 300	Respons	, ,,	Response Status W				
hompson, Geoff	GraCaSI				EPT IN PRINCIF	,				
Comment Type E	Comment Status R			0						
Strange symbology. I have never ever seen a digital oscilloscope with a round display.				Suggested remedy is not complete but it is the assumption of the editor that there is missing text surrounding the Special Characters Table. This text will be updated						
SuggestedRemedy					opriately.					
Change the display rectangles with roun	representation" in the diagrams ded corners.	(throughout the c	draft) to rectangles or							
Response	Response Status C									
REJECT.										
The figure is only for	r illustration purposes.									
-										

C/ 00 SC 0 P 4 L 8 # 303 Thompson, Geoff GraCaSI GraCaSI	C/ 30 SC 30.5.1.1.11 P 22 L 38 # 305 Thompson, Geoff GraCaSI
Comment Type ER Comment Status A Page numbering does not follow 802.3 convention as it is called out in this note. This will cause great confusion during balloting. (Note that the balloting cover letter does not address this issue.	Comment Type ER Comment Status A Calls for insertion in 1st paragraph. First paragraph is limited to 10 Mb/s operation PHYs SuggestedRemedy Paragraph 3 looks like a better fit.
SuggestedRemedy Change the page numbering on all subsequent drafts so that the printed page number matches the PDF page number for the duration of the balloting process. The IEEE editor will change this as appropriate during preparation for publication after the standar	Response Response Status W ACCEPT IN PRINCIPLE.
ACCEPT. See response to comment 198. Discard roman numerals and use arabic numerals for entire draft.	Change "Change the first paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.11 as follows:" to "Insert into the third paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.4 as follows:"
O1 SC 1.4.x P 18 L 28 # 304 nompson, Geoff GraCaSI	See comment 64 for changing "30.5.1.1.11" to "30.5.1.1.4"
omment Type ER Comment Status A RE: PHY-Initialization" This is a descriptive explanation and specification"," not a definition. uggestedRemedy Move the specification and rationale aspect to the 100BASE-T1 clause and replace this	Cl 96 SC 96.1 P 29 L 9 # 306 Thompson, Geoff GraCaSI Comment Type ER Comment Status A Line" is not a defined term in 802.3
with an actual definition. esponse Response Status W	SuggestedRemedy Replace "line" with "link segment".
ACCEPT IN PRINCIPLE. See response to comment #132. PHY-Initilization paragraph has been replaced with FORCE mode paragaph.	Response Response Status W ACCEPT. Use commentors suggested remedy.
Also refer to comment #141	

	C/ 96 SC 96.1.2.3 P 30 L 17 # 309
Thompson, Geoff GraCaSI	Thompson, Geoff GraCaSI
Comment Type ER Comment Status A Title is in accurate. This subclause is not a comparison to other standards" as 1000BAS T is"," in fact part of "this" (802.3) standard.	
SuggestedRemedy At best"," this clause should be correctly titled but in reality this subclause should not be here at all. (See next comment) Response Response Status W ACCEPT IN PRINCIPLE.	SuggestedRemedy Change text to read: "the PMA transmits over the single wire pair." Response Response Status ACCEPT IN PRINCIPLE.
	See repsonse to comment #27.
Change "Relationship of 100BASE-T1 to other standards"	C/ 96 SC 96.1 P 31 L 1 # 310 Thompson, Geoff GraCaSI
to "Relationship of 100BASE-T1 to other 802.3 Clauses"	Comment Type ER Comment Status A Figure doesn't match 802.3 style and uses color without a key for what the colors mean.
Cl 96 SC 96.1.2 P 29 L 27 # 308 Thompson, Geoff GraCaSI GraCaSI Comment Type ER Comment Status R This sub-clause is marketing goals text left over from pre 802.3 days. Any purposeful tex here is redundant and should be moved up into the preceding sub-clause. Also it is the wrong tense. Also it is the state of the preceding sub-clause.	ACCEPT IN PRINCIPLE.
SuggestedRemedy	See response to comment 319.
	C/ 96 SC 96 P 29 L 0 # 311
Delete this sub-clause. The standard can easily stand without it. Response Response Status W REJECT. This subclause is written to inform readers not involved with the development of 100BAS T1 and its relationship to other existing 802.3 Clauses.	Thompson, Geoff GraCaSI Comment Type ER Comment Status R Per page draft number shows as 1.1 in this clause

C/ 96 SC Fig 96-2 P 34 L 1 # 312 Thompson, Geoff GraCaSI	CI 96 SC 96.3.2.3 P 41 L 28 # 314 Thompson, Geoff GraCaSI
Comment Type ER Comment Status A Figure doesn't match 802.3 style and uses color without a key for what the colors mean.	Comment Type ER Comment Status A This entire paragraph lacks the formatting that it should have. It appears that it was cut from elsewhere and pasted as plain text. This has removed essential information.
SuggestedRemedy Redraw the figure before the draft goes to Sponsor Ballot. The new figure should have boxes with corners and all of the text should be black. There is no need to color the boxes unless there is a meaning attributed to the colorization. If there is mean	SuggestedRemedy Provide/restore the essential style information for this paragraph. Especially notable is the lack of bold, italic and subscripting on the term A sub n.
Response Response Status W ACCEPT IN PRINCIPLE.	Response Response Status W ACCEPT IN PRINCIPLE.
See response to comment #553.	See response to comment #433.
C/ 96 SC Fig 96-2 P 34 L 1 # 313 'hompson, Geoff GraCaSI	C/ 96 SC General P 0 L 0 # 315 Thompson, Geoff GraCaSI
Comment Type ER Comment Status A Figure isn't referred to in the text. SuggestedRemedy Delete the figure.	Comment Type ER Comment Status R The term vector" is broadly used throughout the draft. It is not a defined term in 802.3 (though I admit the term is used in earlier amendments"," it is not defined) SuggestedRemedy
ACCEPT IN PRINCIPLE.	Add definition for "vector" to the main definitions clause. <i>Response Response Status</i> W REJECT.
On page 33, Lines 26 and 27: Change: "100BASE-T1 uses the following service primitives to exchange symbol vectors, status indications, and control signals across the service interface:"	As the Commenter acknowledges this currently exists in the 802.3 Standard, therefore the commenter is respectfully requested to submit a maintenance request.

To:

"As shown in Figure 96-2, 100BASE-T1 uses the following service primitives to exchange symbol vectors, status indications, and control signals across the service interface:"

01 SC 1.4.157	P 2	L 132	# 316		SC 96.1.2.1	P 16	L 5	# 318
nmerman, George	CME Consultin	ng, Inc.		Zimmerman, G	ieorge	CME Consu	Ilting, Inc.	
omment Type E	Comment Status R			Comment Type	E	Comment Status A		
	dentical to text for 1000BAS			Missing "a'	" makes text	read confusing and awkwa	rd.	
text	are no differences. Show th	ne differences ra	ather than add Identical	SuggestedRen	nedy			
lggestedRemedy				change "su medium"	upports one p	pair twisted pair medium" to	which supports	a one pair twisted pai
	n 1000BASE-T and 100BAS 32-36, up to "to complete a		"and clause 96).	Response		Response Status C		
Change line 29 to read "C	MII or MII, respectively,"		,	ACCEPT I	N PRINCIPL	E.		
	on line 32 so that sentence these include two convolution		ete a stream." now	Change				
	Response Status C			0	one pair twist	ted pair medium"		
REJECT.				to				
It is easier to understand	if they are separate stateme	ents.		"which sup	ports a singl	e balanced twisted-pair me	dium"	
01 SC 1.4.163	P 2	L 41	# 317	See respor	nse to comm	ent #514.		
nmerman, George	CME Consultin	ng, Inc.		C/ 96 S	SC 96.1	P 17	L 1	# 319
mment Type E	Comment Status R			Zimmerman, G	eorge	CME Consu	Ilting, Inc.	
	dentical to text for 1000BAS are no differences. Show th			Comment Type	e E	Comment Status A		
text ggestedRemedy						96-3, 96-4, 96-12, 96-13, 9 filled is unclear.	6-14) - intent of th	he coloring of some
	n 1000BASE-T and 100BAS	SF-T1 "		SuggestedRen	nedy			
Change line 39 to read "C Delete inserted text lines	MII or MII, respectively," 41-45, up to "arriving on" an	nd insert, "or, ", a	and add "as	Note purpo standards.		chemes or remove coloring	g to be consistent	t with other IEEE 802
	f the sentence, so that line 4 groups encoded from the d		ng on TYD<7:05 via	Response		Response Status C		
the GMII or TXD<3:0> via	the MII, as appropriate. (Se	ee Clause 40 ar	nd Clause 96)."	ACCEPT I	N PRINCIPL	E.		
	Response Status C			See respo	nse to comm	ent #553		
sponse								

C/ 96 SC 96.3.2.1.1		L 41	# 320		SC 96.1.2	P15	L 30	# 322
	CME Consulti Comment Status A sn't written as a definition (tx_	-	t tx_error_mii)	Zimmerman, <i>Comment Ty</i> No refere common	be ER ence is made	CME Consultir Comment Status A to the most closely related PH	-	e 25 - except by its
SuggestedRemedy replace "It is generated variable, as appropriate Response ACCEPT.	" with "The tx_enable_mii v e <i>Response Status</i> C	ariable generat	ed" (or tx_error_mii	"IEEE 80 channel o PHY use	ence before li 2.3 100BASE comprising un s ternary sign	ine 30: -TX PHY is specified in Clause Ishielded copper cabling or bet alling and interfaces to the Cla g full-duplex communications (tter. Like the 10 ause 22 MII. In	00BASE-T1 PHY, this contrast, the 100BASE-
C/ 96 SC 96.7.1.3 Zimmerman, George Image: Science of the second	P 59 CME Consulti	L 39 ng, Inc.	# 321	twisted p (then cor	air channel.	sting statement about 1000BA	. C	
Comment Type E Write return loss equati	Comment Status A ion frequency ranges in style	of other clauses	s e.g., 1<= f < 20MHz	Response ACCEPT	IN PRINCIPI	Response Status W _E.		
Same comment applie:	s to 96.7.1.4 Mode conversior	ı		Insert on	page 29, line	33:		
SuggestedRemedy see comment for remed	dy.			cancellat	ion) over a sir	Y operates using full-duplex congle balanced twisted-pair. In conserved twisted-pair. In conserved se 25, operates on two pairs o	contrast, the IEE	EE 802.3 100BASE-TX
Response ACCEPT.	Response Status C			copper c		er. Like the 100BASE-T1 PHY,		
	ested remedy (embedded in c hows in 96.7.1.3 and 96.7.1.4	,	vide the way the					

Comment Type ER Comment Status A the text in this clause and 96.1.4 looks like it is an instruction to the editor to insert, or a bachdidus. Suggested/Remody Change line 30 to read: The notation used in the state diagram follows the conventions of 21.5°. (which is what other IEEE 802 clauses read). Similarly address 96.1.4, line 35. Response Status W ACCEPT IN PRINCIPLE. Comment Type ER Comment Type Change Response Status W ACCEPT IN PRINCIPLE. Comment Type ER Comment Type Change Service specification follows the conventions of 21.5.° Change Comment Type ER Comment W "Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this clause." Service specification methods in 1.2.2 are used in this clause." Comment Type ER Comment W Comment Type ER Comment Status A Figure 96-9 text is too small to be readable. Signade and notation used in the state diagram follows the conventions of 1.2.2." Comment Type ER Comment Yee Comment Status A Comment Type ER Comment Yee Comment Status A AGEEPT IN PRINCIPLE. CePT IN PRINCIPLE. Comment Type ER Comment Yee Commen	C/ 96 SC 96.1.3 P 16 L 30 # 323 Zimmerman, George CME Consulting, Inc. Image: CME Consulting, Image: CME Consulting, Image: CME Consulting, Image: CME Consulting, Image: CME Consult, Image: CME Consut	C/ 96 SC 96.3.2.2.1 P 27 L 8 # 325 Zimmerman, George CME Consulting, Inc. Image: CME Consulting,
Change Response Could be' with "may be' (2 places in 96.3.2.2.1, one in 96.3.2.2.2) Similarly address 96.1.4, line 35. Response Status W ACCEPT IN PRINCIPLE. Change Change Change "Notation used in the state diagram follows the conventions of 21.5." Change Change CME Consulting, Inc. "Service specification methods in 1.2.2 are used in this clause." The notation used in the state diagram follows the conventions of 1.2." Change "Service specification follows the conventions of 1.2." Figure 98-9 fex lis to somall to be readable Suggested/Remedy Regonse Comment 3.3. Geraw or scale so that fort is consistent with 802.3 style and readable. Response Response Status M ACCEPT IN PRINCIPLE. CME Consulting, Inc. Comment Type ER Comment Status A MattLAB is a registered trademark of The Mathworks, Inc. Suggested/Remedy MattLAB is a registered trademark of the Mathworks, Inc. Suggested/Remedy In 96.2, replace "adopts the service primitives." with "shall use the service primitives in" Similiary edit other reference trademark. <td>the text in this clause and 96.1.4 looks like it is an instruction to the editor to insert, or a</td> <td>"could be" is improper language for a standards implementation option (used 3 times)</td>	the text in this clause and 96.1.4 looks like it is an instruction to the editor to insert, or a	"could be" is improper language for a standards implementation option (used 3 times)
Change ACCEPT IN PRINCIPLE. Change Change "Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this clause." ACCEPT IN PRINCIPLE. Change Comment Type "Notation definitions in 1.2.2 are used in the state diagram follows the conventions of 21.5." Change "Service specification methods in 1.2.2 are used in this clause." The method and notation used in the service specification follows the conventions of 12.2." Change "Service specification methods in 1.2.2 are used in this clause." to "The method and notation used in the service specification follows the conventions of 12.2." Cl 96 SC 96.2 P18 L3 Language is inconsistent with hot of standards requirements. This same general comment applies to 96.3.1, 96.3.2.4.1, 96.3.2.4.2, 96.3.3.3. 96.4.1 SuggestedRemedy Mark and reference trademark. Response Response Status W ACCEPT IN PRINCIPLE. Will use comment splies to 96.3.1, 96.3.2.4.1, 96.3.2.4.2, 96.3.3.3. 96.4.1 SuggestedRemedy Mark and reference trademark. Response Response Status W ACCEPT IN PRINCIPLE. Will use comment splies to 96.3.1, 96.3.2.4.2, 96.3.3.3. 96.4.1 SuggestedRemedy Mark and reference trademark.		
Similarly address 96.1.4, line 35. Response Response Status W ACCEPT IN PRINCIPLE. Change "Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this clause." to "The notation used in the state diagram follows the conventions of 21.5." Change "Service specification methods in 1.2.2 are used in this clause." to "The method and notation used in the service specification follows the conventions of 1.2." Cl 96 SC 96.5.1 P37 L1 # 326 Comment Type ER Comment Status A Figure 96-9 text is too small to be readable Suggested/Remedy Redraw or scale so that font is consistent with 802.3 style and readable. Response Response Status W ACCEPT. Cl 96 SC 96.5.1 P52 L 32 # 327 Zimmerman, George CME Consulting, Inc. Comment Type ER Comment Status A Language is inconsistent with that of standards requirements. This same general comment applies to 96.3.1, 96.3.2.4.1, 96.3.2.4.2, 96.3.3.3, 964.1 Suggested/Remedy In 96.2, replace "adopts the service primitives." with "shall use the service primitives in" Similarly did other referenced clauses. Response Response Status W ACCEPT IN PRINCIPLE. Will use comment of suggested remedy for consistent language in 96.2, 96.3.1,	"The notation used in the state diagram follows the conventions of 21.5". (which is what	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE. Change "Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this dause." ''	Similarly address 96.1.4, line 35.	
Change "Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this dause." General Type ER Comment Status A Figure 96-9 text is too small to be readable SuggestedRemedy Refraw or scale so that font is consistent with 802.3 style and readable. Change "Service specification methods in 1.2.2 are used in this clause." to The method and notation used in the service specification follows the conventions of 1.2.2." Response Status W Cl 96 SC 96.2 P18 L3 # 324 Zimmerman, George CME Consulting, Inc. Comment Status A Comment Type ER Comment Status A Language is inconsistent with that of standards requirements. This same general comment applies to 96.3.1, 96.3.2.4.2, 96.3.3.3, 96.4.1 SuggestedRemedy Mark and reference trademark. SuggestedRemedy In 96.2, replace "adopts the service primitives" with "shall use the service primitives in" Similarly edit other referenced clauses. W ACCEPT IN PRINCIPLE. Will use commentors suggested remedy for consistent language in 96.2, 96.3.1, W See response to comment 558.		
to "The method and notation used in the service specification follows the conventions of 1.2.2." Cl 96 SC 96.2.1 P 52 L 32 # 327 Cl 96 SC 96.2 P18 L 3 # 324 Zimmerman, George CME Consulting, Inc. Comment Type ER Comment Status A Language is inconsistent with that of standards requirements. MATLAB is a registered trademark of The Mathworks, Inc. SuggestedRemedy In 96.2, replace "adopts the service primitives" with "shall use the service primitives in" Similarly edit other referenced clauses. Will use commentors suggested remedy for consistent language in 96.2, 96.3.1, Will use commentors suggested remedy for consistent language in 96.2, 96.3.1, Will use commentors suggested remedy for consistent language in 96.2, 96.3.1,	"Notation definitions in 21.5 are used in State diagrams, variable definitions, etc., in this clause." to "The notation used in the state diagram follows the conventions of 21.5." Change	Figure 96-9 text is too small to be readable SuggestedRemedy Redraw or scale so that font is consistent with 802.3 style and readable. Response Response Status W
2/ 96 SC 96.2 P18 L3 # 324 Zimmerman, George CME Consulting, Inc. Comment Type ER Comment Status A Language is inconsistent with that of standards requirements. Mark and reference trademark. This same general comment applies to 96.3.1, 96.3.2.4.1, 96.3.2.4.2, 96.3.3.3, 96.4.1 SuggestedRemedy In 96.2, replace "adopts the service primitives" with "shall use the service primitives in" Similarly edit other referenced clauses. Response Response Status W ACCEPT IN PRINCIPLE. W Will use commentors suggested remedy for consistent language in 96.2, 96.3.1, Sec. 96.3.1,	to "The method and notation used in the service specification follows the conventions of	
Response Response Status W ACCEPT IN PRINCIPLE. Will use commentors suggested remedy for consistent language in 96.2, 96.3.1,	Zimmerman, George CME Consulting, Inc. Comment Type ER Comment Status A Language is inconsistent with that of standards requirements. This same general comment applies to 96.3.1, 96.3.2.4.1, 96.3.2.4.2, 96.3.3.3, 96.4.1 SuggestedRemedy In 96.2, replace "adopts the service primitives" with "shall use the service primitives in"	MATLAB is a registered trademark of The Mathworks, Inc. SuggestedRemedy Mark and reference trademark. Response Response Status W ACCEPT IN PRINCIPLE.
	Response Response Status W	

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

C/ 96 SC 96.5.4	.5 <i>P</i> 56	L 33	# 328	C/ 01	SC 1.4.377	Р	3	L 43	# 331
Zimmerman, George	CME Cons	ulting, Inc.		Zimmerma	n, George	CM	E Consultir	ng, Inc.	
Comment Type ER	Comment Status A			Comment	Type TR	Comment Statu	s A		
	nodes, in confusing and diffic blies for 96.5.5.2, Receiver Fro					eaks the link betwee kes it generic - stater			
SuggestedRemedy				Suggested	Remedy				
read (for each of 96	nt inline in the sentence above .5.4.5 and 96.5.5.2): .666 MHz +/- 100 ppm."	e, appending it afte	er "within the range " to	Replac (prefer or:	able)	by: SSD consists" wit -T1" prior to "SSD co			
Response	Response Status W			Response		Response Status	s W		
ACCEPT IN PRINC	IPLE.			ACCEI	PT IN PRINCIP	LE.			
See response to co	mment #442.			Similar	r to comment #2	24, see the proposed	l change fo	or this text.	
C/ 96A SC	P 65	L 13	# 329	C/ 96	SC 96.2	Р	18	L 13	# 332
Zimmerman, George	CME Cons	ulting, Inc.		Zimmerma	n, George	CM	E Consultir	ng, Inc.	
Comment Type ER Comments about " PHY. SuggestedRemedy	Comment Status A	⁄s" seem general a	nd not related to this	the cor	E mode is used	Comment Status without definition or clear, using it as a na the best definition is	pointer to me of a m	ode, should hav	
Delete Sentence be	ginning with "Typical standard DBASE-T1 PHY control setting		place "So, PHY control	S <i>uggested</i> Add cr	-	o end of line 13, afte	r "FORCE	mode". (e.g., Se	ee Clause 96.4.4)
Response	Response Status W	-		Response		Response Status	w		
ACCEPT.					PT IN PRINCIP	•			
C/ 96 SC 96.1.2		L 45	# 330			nade an appropiate c eference at end of lir		lefine FORCE M	lode. Use suggested
Zimmerman, George	CME Cons	ulting, Inc.		Terned	y to add closs i		10 10.		
Comment Type T Echo cancellation is text implies it is.	Comment Status A sn't necessarily the only way to	o do full duplex co	nmunication, and the						
SuggestedRemedy									
	fore echo cancellation" to "util	izing echo cancell	ation".						
Change, and there		incling borrie barroom							

CI 96	SC 96.5.5.3	P 57	L 11	# 333	C/ 96	SC 96.4.4		P 44	L 26	# 335
<u>'</u> immerma	in, George	CME Consu	Ilting, Inc.		Zimmerma	an, George		CME Consu	lting, Inc.	
Comment	Type TR	Comment Status R			Comment	Type TR	Comm	ent Status A		
couplii Additic	ng between link s	y represented by discrete-le segments. The test is inade source is specified as a Bro	equate.		require	ement to com	bly with the st		is the PHY contro issing as a result of	I state diagram. The of this language.
uggested	Remedy				Suggested	dRemedy				
	ce noise source v uration.	with a 66 MHz gaussian noi	se source, see cla	ause 55 for an example	descri	ption given in	Figure 96–15	with the state dia ." 16, on page 46, li	0	
Response		Response Status W					•		ille 40)	
REJE	CT.				Response ACCE	PT IN PRINC	,	se Status W		
1000B	ASE-T test.	source is a 100BASE-T1 tra			to			the 100BASE-T1		
Broad	R-Reach referen	ces have been removed ba	sed on other com	ments.	"PHY	Control shall of	comply with th	ie state diagram s	shown in Figure 96	6-15."
C/ 96 Zimmerma	SC 96.3.3.1. In, George	3 P 40 CME Consu	L 4 Ilting, Inc.	# 334	Contro	ge "In FORCE ol operation."	mode, Link N	Ionitor State diag	ram supports the	100BASE-T1 PHY
Comment Notatio		Comment Status A 8K 36*1024 +/- 1.8*1024 or	-			Monitor opera rt PHY Contro		in state diagram	of Figure 96-16, s	hall be provided to
Suggested write c	,	, 36000 +/- 1800)			C/ 96 Zimmerma	SC 96.5.3 an, George		P 51 CME Consul	L 48 Iting, Inc.	# 336
Response ACCE	PT IN PRINCIPL	Response Status W E.				generator of	the disturbing		e sufficient linearit	y and range" - is this tion.
See th	e response to co	omment #33 for the updated	I rcv_max_timer d	lefinition.	Suggested	dRemedy				
					chang	-			fficient linearity ar	nd range" as well as
					Response		Respon	se Status W		
					REJE	CT.				
					exact	language use	d in 40.6.1.1.3	3. This text was a		ber generator is the ne disturber generator E-T test fixture 3.

C/ 96 SC 96.7.1.		L 22	# 337	C/ 96 SC 96.4.4	P 45	L 22	# 340
ïmmerman, George	CME Consult	ting, Inc.		Zinner, Helge	Robert Bosch	n GmbH	
	Comment Status A e the insertion loss undefined b e, you could have a 30 dB notch				Comment Status R	n this page	
SuggestedRemedy Write channel insertion	on loss requirement in equatior	n form similar to	other clauses.	SuggestedRemedy explain the meaning o			
Response ACCEPT IN PRINCI	Response Status C			Response REJECT.	Response Status C		
				"*" is an IEEE accepte	ed notation repesenting the log	gical "AND" opera	ation.
'100BASE_T1_Equa				C/ 96 SC 96.4.4 Zinner, Helge	P 45 Robert Boscl	L 6 n GmbH	# 341
C/ 96 SC 96.10.3 Zimmerman, George	CME Consult	L 2 ting, Inc.	# 338	Comment Type E Brand name 'BroadB:	Comment Status A Reach' should be removed		
Comment Type TR PICS are blank	Comment Status A			SuggestedRemedy change name to 100E			
SuggestedRemedy Write, fill in and chec	k PICS			Response	Response Status C		
Response ACCEPT.	Response Status W			ACCEPT IN PRINCIF See response to com			
See response to con	nment #571.			C/ 96 SC 96.4.5 Zinner, Helge	P 46 Robert Boscl	L 23	# 342
C/ 96 SC 96.1.2.3 Zinner, Helge	3 P 16 Robert Bosch	L 17 n GmbH	# 339	Comment Type E	Comment Status R	Gilbri	
Comment Type E _each wire pair_	Comment Status A				ith '*' but '*' is not explained o	n this page	
SuggestedRemedy				SuggestedRemedy explain the meaning of	of '*'		
underlines should be	removed			Response	Response Status C		
Response ACCEPT IN PRINCI	Response Status C			, REJECT.			
See response to con				See response to com	ment 340.		

C/ 96 SC 96.5.4.2 Zinner, Helge	P L Robert Bosch GmbH	# 343	C/ 96 SC 96.1.2.3 Slavick, Jeff	P 30 Avago Techno	L 17 blogies	# 346		
Comment Type E some items are colored	Comment Status A - but color won't help here		Comment Type E Co Extra _ characters present.	omment Status A				
SuggestedRemedy rewrite text in black lette	ers		SuggestedRemedy Remove the underscore befo	ore each and the unders	score after pair			
Response ACCEPT.	Response Status C		Response Res ACCEPT IN PRINCIPLE.	sponse Status C				
See response to comme	ent #553.		See response to comment #5	514.				
C/ 96 SC 96.5.4.2 Zinner, Helge	P 53 L 6 Robert Bosch GmbH	# 344	C/ 96 SC 96.3.3.1 Slavick, Jeff	P 51 Avago Techno	L 9 plogies	# 347		
Comment Type E Line: 6,7,11,20,25,26,30			Comment Type E Comment Status A Two == signs instead of a combined = charcter					
some items are colored suggestedRemedy rewrite text in black lette	- but color won't help here		SuggestedRemedy Convert the == into the single	e wider = sign in the mii	_fc_err <== assi	gnment		
Response ACCEPT.	Response Status C		Response Res ACCEPT.	sponse Status C				
See response to comme	ent #553.		Use commentors suggested	remedy.				
7 96 SC 96.5.4.4	P 55 L 27 Robert Bosch GmbH	# 345	C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Techno	L 1 ologies	# 348		
omment Type E right lower table box is e	Comment Status A		Comment Type TR Comment Status A Missing PICS for 4B3B encoding					
uggestedRemedy	that this is intended to be blank		SuggestedRemedy Add PICS					
esponse ACCEPT IN PRINCIPLE	Response Status C		Response Res ACCEPT.	sponse Status W				
Delete "-" so that cell is			See response to comment #5	571.				

C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Techno	L 1 blogies	# 349	C/ 96 SC 96.10 Slavick, Jeff	Р 77 Avago Technol	L 1 logies	# 352
Comment Type TR Missing PICS for Tx s	Comment Status A	-		Comment Type TR Missing PICS for scra	Comment Status A	-	
SuggestedRemedy Add missing PICS				SuggestedRemedy Add missing PICS			
Response ACCEPT.	Response Status W			Response ACCEPT.	Response Status W		
See response to com	ment #571.			See response to comr	nent #571.		
C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Techno	L 1 blogies	# 350	C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Technol	L 1 logies	# 353
Comment Type TR Missing PICS for igno	Comment Status A re of stuff bits by Rx			Comment Type TR Missing PICS for rx de	Comment Status A		
SuggestedRemedy Add missing PICS				SuggestedRemedy Add missing PICS			
Response ACCEPT.	Response Status W			Response ACCEPT.	Response Status W		
See response to com	ment #571.			See response to comr	nent #571.		
C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Techno	L 1 blogies	# 351	C/ 96 SC 96.10 Slavick, Jeff	P 77 Avago Technol	L 1 logies	# 354
Comment Type TR Missing PICS for tx_e	Comment Status A			Comment Type TR Missing PICS for 3B4E	Comment Status A 3 decoding		
SuggestedRemedy Add missing PICS				SuggestedRemedy Add missing PICS			
Response ACCEPT.	Response Status W			Response ACCEPT.	Response Status W		
See response to com	ment #571.			See response to comr	nent #571.		

C/ 96 SC 96.10	0 P 77	L 1	# 355	C/ 96	SC 96.1	P 29	L 1	# 358
Slavick, Jeff	Avago Techno	ologies		D'Ambrosi	a, John	Dell		
Ū.	Comment Status A PMA electrical requirements				51	Comment Status A ot contain a Architectural Posit See Fig 21-1	ioning Diagram.	Other 100BASE-T
SuggestedRemedy				Suggested				
Add missing PICS				00		al positioning diagram. Refer t	o Figure 21-1.	
Response ACCEPT.	Response Status W			Response		Response Status W		
ACCEPT.				ACCE	PT.	,		
See response to co	omment #571.			Archite	ectural position	ing diagram will be created for	next draft releas	se.
C/ 96 SC 96.1.	.1 P 29	L 16	# 356		•			
D'Ambrosia, John	Dell			C/ 96	SC	P 29	L 1	# 359
Comment Type ER	Comment Status R			D'Ambrosi Comment	,	Dell Comment Status R		
SuggestedRemedy Delete 96.1.1 Response	Response Status W			Manda Suggested	atory or optiona dRemedy	e is very useful to help the read I. nature to 80-2 that looks at the		-
REJECT.						al, mandatory, or applicable.		key sections and
96.1.1 will be upda	ated with all of the 802.3bw objecti	ives.		Response		Response Status W		
C/ 99 SC	P 29	L1	# 357	REJE	CT.			
D'Ambrosia, John	Dell		" 001		e similar to 80-2 only contain or	2 does not apply to Clause 96. ne entry.	In this ammend	ment, such a table
Comment Type ER				C/ 39	SC 96.3	P 39	L1	# 360
	ould be written in accordance with	accepted norm	s today.	D'Ambrosi		Dell		
SuggestedRemedy	f the duality valuation to upper the o		ations athen	Comment	Type ER	Comment Status A		
	f the draft in relation to recently ap ddress specific items.	pproved specific	auons. other	colore	d diagrams? N	lot aware off top of head of any	others. Fig 96-	.3
Response	Response Status W			Suggested	lRemedy			
REJECT.				Consu	ult styld guide			
Comment and sug	gested remedy are not specific.			Response ACCE	PT IN PRINCIF	Response Status W		
				Simila	r comment in 5	63, see the proposed change f	or this text there	<u>}.</u>

'Ambrosia, John Dell D	C/ 96 SC P 29 L 1 # 364 D'Ambrosia, John Dell Comment Type TR Comment Status A The objectives state - The resulting standard will not preclude single pair auto-negotiation.\ Yet there are no statements at all in the document Given that there are two variants of xBASE-T1 being created within 802.3 at this time, envisioned that subsystems could be updated in the future from one speeed to another Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text c) The 100BASE-T1 PHY does not use auto-negotiation due to associated latency that
Comment Type ER Comment Status A Comment Type Comment Status A Comment Status A	Comment Type TR Comment Status A The objectives state - The resulting standard will not preclude single pair auto-negotiation.\ Yet there are no statements at all in the document Given that there are two variants of xBASE-T1 being created within 802.3 at this time, envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
use of color text / figures? Is this permitted? However, regardless, user may print out in black/white which then means color will not necessarily communicate its intended message. SuggestedRemedy Consult style guide. Remove all color Response Response Status W ACCEPT. See response to comment #553.	The objectives state - The resulting standard will not preclude single pair auto-negotiation.\ Yet there are no statements at all in the document Given that there are two variants of xBASE-T1 being created within 802.3 at this time, envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
black/white which then means color will not necessarily communicate its intended message. <i>SuggestedRemedy</i> Consult style guide. Remove all color <i>Response</i> ACCEPT. See response to comment #553.	The resulting standard will not preclude single pair auto-negotiation.\ Yet there are no statements at all in the document Given that there are two variants of xBASE-T1 being created within 802.3 at this time, envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
Consult style guide. Remove all color Response Response Status W ACCEPT. See response to comment #553.	Given that there are two variants of xBASE-T1 being created within 802.3 at this time, envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
Response Response Status W ACCEPT. See response to comment #553.	envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
ACCEPT. See response to comment #553.	envisioned that subsystems could be updated in the future from one speeed to anothe Only two inferences to autno-negotiation are made - P18, Line 30, as part of a definition. P32 Line 11 - see text
·	P32 Line 11 - see text
/ 96 SC 96 10 P76 / 1 # 362	c) The 100BASE-T1 PHV does not use auto-negatiation due to associated latency the
'Ambrosia, John Dell	does not meet start-up time requirements of automotive networks. The 100BASE-T1 F MASTER-SLAVE relationship is set by FORCE mode.
Comment Type T Comment Status A I found 89 instances of the word "shall" no entries in PICS section,a nd not clear even all sections with normative requirements are even there	It appears that auto-negotiation is not being addressed, but then a limit is placed on it. Further, what stops someone from adding an AN scheme that would not meet the latn requirements?
uggestedRemedy	Left undefined, this is going to create interoperability concerns.
	SuggestedRemedy
Response Response Status C ACCEPT. C	specific text needs to be added to address auto-negotiation. suggest that text includes a SHALL statement that places a latency restriction on AN schemes in order to meet the start-up time requirements of automotive networks.
7/96 SC 96 P 29 L 1 # 363	Response Response Status U
'Ambrosia, John Dell	ACCEPT IN PRINCIPLE.
Comment Type TR Comment Status A No subclauses related to Reconciliation Sublayer and MII are provided at all. The MII	Auto-Negotiation objective will be removed from the draft.
specification is called out in 96.2 - this makes it more difficult to find. the supporting statement for MII i found is not normative.	
uggestedRemedy	
Create clauses addressing these topics. Copy and modify appropriate text from 21.1.1	
The 100BASE-T1 PHY SHALL use the Media Independent Interface (MII) as specified in Clause 22.	
Cesponse Response Status W	
ACCEPT IN PRINCIPLE.	
Text will be created.	

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

	P 81	L 1	# 365	C/ 96 SC 96.1.1	P 29	L 20	# 368
D'Ambrosia, John	Dell			Lusted, Kent	Intel		
Comment Type TR	Comment Status R			Comment Type E	Comment Status A		
	oly a test mode. Is it normative			font of items in alphabe	etic list are different from the	rest of the text.	
	osed to some statement wheth ound in the document of this te		supported of not.	SuggestedRemedy			
SuggestedRemedy							
Specify whether these	e test modes are required and	normative		Response	Response Status C		
Response	Response Status W			ACCEPT.			
REJECT.				Font of text throughout	document will be reviewed to	o changed to the	accepted IEEE style.
These tests modes an	e not required. Annex 96B is i	nformative.		C/ 96 SC 96.1.2	P 29	L 45	# 369
C 45 SC Table 4	5-2003 P 26	L 29	# 366	Lusted, Kent	Intel		
usted, Kent	Intel			Comment Type E	Comment Status A		
Comment Type E	Comment Status A		CL45/22	font of items in alphabe	etic list are different from the	rest of the text.	
typo in "configre PHY	as SLAVE"			SuggestedRemedy			
SuggestedRemedy				-	_		
change configre to co	nfigure			Response	Response Status C		
Response	Response Status C			ACCEPT.			
ACCEPT.				Text font will be fixed.			
Similar to comment 1	60, see the proposed change f	or this text there.		C/ 96 SC Figure 9	6-15 <i>P</i> 59	L 5	# 370
C/ 45 SC Table 4	5-2003 P 26	L 28	# 367	Lusted, Kent	Intel		
usted, Kent	Intel			Comment Type E	Comment Status A		
Comment Type E	Comment Status A		test modes	The term BroadR-Read 100BASE-T1?	ch is used but not defined an	ywhere. Perhaps	s this is supposed to b
Table 45-2003 lists th	e bit definitions for normal ope as normal operation and test m	ration plus test m	nodes 1-7. However,	SuggestedRemedy			
Table 96-4 Only define	es normal operation and test n	100es 1-5.		Change if necessary			
SuggestedRemedy				Response	Response Status C		
Change Table 45-200	3 entries for test modes 6-7 to	align with Table	96-4	ACCEPT IN PRINCIPL	.E.		
0	Response Status C			See response to comn	nent 577		
Response	Response Status C						

C/ 96 SC F .usted, Kent	igure 96-23	P 71 Intel	L 32	# 371	<i>Cl</i> 96.8. Matola, Lar	SC 96.8.2.1	P 60 Delphi	L 50	# 373
Comment Type	E Coi	mment Status A			Comment	у Гуре Е	Comment Status A		
• •	dR-Reach is us	ed but not defined an	ywhere. Perhaps	this is supposed to be	Charao measu	cteristic impedar red with TDR ar		onnectors shall be 1	00 ohm +/-10%
SuggestedRemedy	/				not slo	wer than 700 ps	ec.		
Change if nece	essary				Section	n refers to MDI o	connector and text says in	line	
esponse	Res	ponse Status C			Suggested	Remedy			
ACCEPT.					measu	cteristic impedar red with TDR ar wer than 700 ps		nectors shall be 100) ohm +/-10%
See response	to comment #4	07.			Response		Response Status C		
96 SC 9 sted, Kent	6.5.4.2	P 67 Intel	L 1	# 372	ACCE	PT IN PRINCIPL	.E.		
mment Type		<i>mment Status</i> A nt release foot note.			Charac	.1 MDI Characte	eristic Impedance nce of any mated in-line co nd rise-time set	onnectors shall be 1	00 ohm +/-10%
See Clause 68	.6.6.2 in the IE	EE Std. 802.3-2012 fo	r an example.		not slo	wer than 700 ps	ec."		
ggestedRemedy Add it	/						append "Characteristic im easured with TDR and rise		
esponse ACCEPT IN PF		ponse Status C			<i>Cl</i> 96.1 Matola, Lar	SC N/A	P 15 Delphi	L 10	# 374
See response	to comment 55	8.			Comment interfac	<i>Type</i> E ce over one pair	Comment Status A of UTP cable		
					UTP (A	bbreviation) is u	used before it is identified		
					Suggested	,			
					00	2	ed twisted pair (UTP) cabl	e.	
					Response ACCEI	PT IN PRINCIPL	Response Status C .E.		
					Chang "one pa	e air of UTP cable	n		
					to				
					"single	balanced twiste	ed-pair"		
					See re	sponse to comm	nent #514.		
				T/technical E/editorial G/g				nment ID 374	Page 87 of 144

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

/ 96.1 SC 96.1.1 P 15 L 20 # 375 atola, Larry Delphi	C/ 96.7 SC 96.7.1 P 59 L 1 # 377 Matola, Larry Delphi
omment Type E Comment Status A over one pair unshielded twisted pair (UTP) or better cable	Comment Type E Comment Status A 1-pair UTP cable Consistancy
Definition of UTP is moved to line 10 Why the need for or better?	SuggestedRemedy one pair UTP cable
uggestedRemedy over one pair (UTP) cable	Response Response Status C ACCEPT IN PRINCIPLE.
esponse Response Status C ACCEPT IN PRINCIPLE.	See response to comment #514.
Change "one pair unshielded twisted pair (UTP) or better cable"	C/ 1.4SC multipleP 2-3L# 378Matola, LarryDelphi
to	Comment Type E Comment Status A Some definitions are Bold text others not
"single balanced twisted-pair"	SuggestedRemedy Consistancy make all the same
See response to comment #514. / 96.1 SC 96.1.2.2 P 16 L 9 # 376 atola, Larry Delphi	Response Response Status C ACCEPT IN PRINCIPLE. Similar comment in 524, see the proposed change for this text there.
omment Type E Comment Status A onto the balanced one pair twisted pair cable medium	C/ 1.4 SC P 4 L 18 # [379] Matola, Larry Delphi
Consistancy on name of cable uggestedRemedy onto the balanced one pair UTP cable	Comment Type E Comment Status R 1.4.x Automotive Cabling: Balanced 100 ohm one pair cable and associated hardware having specified transmission characteristics are provided in 96.7.1.
esponse Response Status C ACCEPT IN PRINCIPLE.	UTP is not mentioned in Definition
Consistently use "single balanced twisted-pair". See response to comment # 514.	SuggestedRemedy 1.4.x Automotive Cabling: Balanced 100 ohm one pair unshielded twisted pair(UTP) cable and associated hardware having specified transmission characteristics are provided in 96.7.1.
	Response Response Status C REJECT.
	See response to comment #514.

C/ Previ SC P L # 380 Matola, Larry Delphi	C/ 00 SC 0 P 0 L 0 # 382 Hajduczenia, Marek Bright House Network
Comment Type E Comment Status A over one pair unshielded twisted pair(UTP) cable Since this is the Automotive Spec would it be proper to refer to UTP cable as Automotive cable per our definition This replacement occurs multiple places reference my comments 3- 6 SuggestedRemedy over one pair Automotive cable Response Response Status C	Rajduczenia, Marek Bigit House Network Comment Type ER Comment Status A Draft does not follow the accepted 802.3 template. Primate examples: page 2, page 96 onwards (plenty of empty lines, wrong paragraph styles, wrong symbols resultign from direct copy&paste of text - for example page 30, line 18). SuggestedRemedy Apply proper styles to the text and fix all *editorial* inconsistencies within the draft relative to the official 802.3 draft template Response Response Status W ACCEPT. Accept. Accept. Accept. Accept. Accept.
ACCEPT IN PRINCIPLE. See response comment #514.	C/ 01 SC 1.4.315 P 17 L 24 # 383 Hajduczenia, Marek Bright House Network # 383
Cl 96.8. SC P 50 L 42 # 381 Matola, Larry Delphi Delphi Comment Type T Comment Status A The section states "The MDI connector mated with a specified one pair UTP cable connector shall meet the electrical requirements specified in Table 96.7.1." the sub clause 96.8.2.1 and 96.8.2.2 call out specific MDI Characteristic Impedance and Return Loss values. This seems like redundant information since it is also found above SuggestedRemedy Delete sub clause 96.8.2.1 and 96.8.2.2 Response Response Response Status C	Comment Type ER Comment Status A The comparison between 1.4.315 in 802.3-2013 and 1.4.315 in draft D1.2 shows there are more changes than marked in the draft right now. SuggestedRemedy Insert the word ",and" between "66" and "83" and show it in strikethrough. Review the remaining definitions in 1.4 and: a) copy text from 802.3-2012 as base line b) show all text to be removed in strikethrough c) show all new text in underline The purpose of editorial instructions is to make staff editor aware of what changes need to be done (removals, additions) and the lack of complete editorial instructions will lead to incorrect merging of P802.3bw into base standard. Response Response Status W
ACCEPT IN PRINCIPLE. See response to comment #588.	ACCEPT. Add "and" after "66, " with strikeout. Review remaining definitions for mark-up errors.

C/ 01SC 1.4.183P 17L 1# 387Hajduczenia, MarekBright House Network
Comment Type T Comment Status A "this delineates data transmission from idle" - unclear what "this" means in this context.
SuggestedRemedy Replace "this" to "the ESD"
Response Response Status C ACCEPT IN PRINCIPLE.
See response to comment #140.
C/ 01SC 1.4.xP 17L 15# 388Hajduczenia, MarekBright House Network
Comment Type T Comment Status A Not sure what is wrong with the definitions in lines 15-33 and why they were not inserted into the list already with the proper numbering. 15-33 and why they were not inserted
 SuggestedRemedy a) remove definition in line 15 - seems like garbage b) add numbers for definitions in lines 17 - 33 and insert them into the list already in place above. c) confirm that addigned numbers to definitions 1.4.142 through 1.4.385 are correct - it seems they displace existing definitions and should be added behind existing definitions. See 802.3bm for an example of how definitions are added to existing lists
Response Response Status C ACCEPT IN PRINCIPLE.
IEEE staff editor will order appropriately

Cl 45 SC 45.2.1 P 24	L 12	# 389	C/ 45 SC 45.2	.1.2002	P 27	L 8	# 392
Hajduczenia, Marek Bright I	House Network		Hajduczenia, Marek		Bright House	e Network	
Comment Type T Comment Status Is there any specific reason why we need to c registers? Why not place them at 1.1810 thro	hop register space int		Comment Type T Table 45–2002 do neccessary marku	es not show all	ent Status A I other bits in this r	egister as reserv	CL45/2 ved. Please add the
start from 1.1820 though 1823.			SuggestedRemedy	p.			
SuggestedRemedy			Per comment				
Change register assignment to 1.1810 throug from 1.1820 though 1823.	h 1813 or if some sep	aration is required, start	Response	Respon	se Status C		
Response Response Status	С		ACCEPT.				
ACCEPT IN PRINCIPLE.			CI Annex SC Ann	ex 96B	P 81	<i>L</i> 1	# 393
We'll use these registers as specified unless	informed by the 802.3	chief editor that they	Hajduczenia, Marek		Bright House	e Network	
should be changed.			Comment Type T	Comm	ent Status R		
C/ 45 SC 45.2.1.1 P 24 Hajduczenia, Marek Bright H	L 29 House Network	# 390		y other PHYs.	I know for a fact th	nat smilar loopba	
Comment Type T Comment Status	Δ		independent.				
<i></i>			independent. SuggestedRemedy				
There are no changes shown in Table 45–4 a SuggestedRemedy	is far as I can tell.		SuggestedRemedy	ext PHY indepe	ndent (and applica	able to any PHY	type) or remove this
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th	is far as I can tell. is subclause altoghete	er.	SuggestedRemedy Either make this te	·	endent (and applicanse Status C	able to any PHY	type) or remove this
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status	is far as I can tell. is subclause altoghete	er.	SuggestedRemedy Either make this te Annex altogether.	·		able to any PHY	type) or remove this
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th	is far as I can tell. is subclause altoghete	er.	SuggestedRemedy Either make this te Annex altogether. Response	Respon		able to any PHY	type) or remove this
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67.	is far as I can tell. iis subclause altoghete C		SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to c	Respon	P 79	L 1	type) or remove this # 394
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. Cl 45 SC 45.2.1.2001 P 26	L 32	er. # [<u>391</u>	SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to c	Respon omment #365. ex 96A	<i>P</i> 79 Bright House	L 1	
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. CI 45 SC 45.2.1.2001 P 26 Hajduczenia, Marek Bright H	ls far as I can tell. nis subclause altoghete C <i>L</i> 32 House Network	# 391	SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to c Cl Annex SC Ann Hajduczenia, Marek Comment Type TR	Respon omment #365. ex 96A Comm	P 79 Bright House ent Status A	L 1 P Network	# <u>394</u> <i>CL45/</i> 2
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove the Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. CI 45 SC 45.2.1.2001 P 26 Hajduczenia, Marek Bright H Comment Type T Comment Status Missing description for bits 1.2100.3:0	ls far as I can tell. nis subclause altoghete C <i>L</i> 32 House Network		SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to co Cl Annex SC Ann Hajduczenia, Marek Comment Type TR The purpose of thi 802.3 PHYs and th	Respon omment #365. ex 96A c Comm s Annex evade ne text included	P 79 Bright House ent Status A es me. MDIO is a p d in Annex 96A rig	L 1 Poetwork pervasive manag	# [394
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. CI 45 SC 45.2.1.2001 P 26 Hajduczenia, Marek Bright H Comment Type T Comment Status Missing description for bits 1.2100.3:0 SuggestedRemedy	L sfar as I can tell. his subclause altoghete C L 32 House Network A	# 391	SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to co Cl Annex SC Ann Hajduczenia, Marek Comment Type TR The purpose of thi 802.3 PHYs and th justify the need for	Respon omment #365. ex 96A c Comm s Annex evade ne text included	P 79 Bright House ent Status A es me. MDIO is a p d in Annex 96A rig	L 1 Poetwork pervasive manag	# <u>394</u> <i>CL45/2</i> ement interface for all
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. CI 45 SC 45.2.1.2001 P 26 Hajduczenia, Marek Bright H Comment Type T Comment Status Missing description for bits 1.2100.3:0 SuggestedRemedy Please add a subclause with description of bit	is far as I can tell. is subclause altoghete C <i>L</i> 32 House Network A ts 1.2100.3:0	# 391	SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to co Cl Annex SC Ann Hajduczenia, Marek Comment Type TR The purpose of thi 802.3 PHYs and th justify the need for SuggestedRemedy	Respon omment #365. ex 96A s Annex evade ne text included a separate An	P 79 Bright House ent Status A es me. MDIO is a p d in Annex 96A rig inex for this brief s	L 1 e Network pervasive manag ht now neither ad tatement	# 394 CL45/2 Jement interface for all dd anything new, nor
There are no changes shown in Table 45–4 a SuggestedRemedy Either show changes to 45.2.1.1 or remove th Response Response Status ACCEPT IN PRINCIPLE. See response to comment 67. CI 45 SC 45.2.1.2001 P 26 Hajduczenia, Marek Bright H Comment Type T Comment Status Missing description for bits 1.2100.3:0 SuggestedRemedy	is far as I can tell. is subclause altoghete C <i>L</i> 32 House Network A ts 1.2100.3:0	# 391	SuggestedRemedy Either make this te Annex altogether. Response REJECT. See response to co Cl Annex SC Ann Hajduczenia, Marek Comment Type TR The purpose of thi 802.3 PHYs and th justify the need for SuggestedRemedy	Respon omment #365. ex 96A c Comm s Annex evade the text included a separate An ex in the curren	P 79 Bright House ent Status A es me. MDIO is a p d in Annex 96A rig inex for this brief s	L 1 e Network pervasive manag ht now neither ad tatement	# <u>394</u> <i>CL45/2</i> ement interface for all

C/ 01 SC 1.4.142		L 23	# 395		1.4.183		••	L 3	# 398
Hajduczenia, Marek	Bright House	Network		Hajduczenia, Ma	rek	Brig	ht House Netwo	ork	
Comment Type E "For 100BASE-T1, A note the unnecessar	Comment Status A set of ternary " should likely be y capital "A"	e "For 100BASE-	T1, a set of ternary " -	Comment Type "Clause 96" SuggestedReme	,	Comment Status dded in this draft -		t in 802.3-2	2012 for sure
SuggestedRemedy				00		kup to indicate cha	anges from base	e standard.	
Per comment				Response		Response Status	C		
Response ACCEPT IN PRINCII	Response Status C PLE.			ACCEPT.			•		
See response to con	nment #420			C/ 01 SC Hajduczenia, Ma	1.4.313 rek		17 ht House Netwo	L 10 ork	# 399
C/ 01 SC 1.4.142 Hajduczenia, Marek	2 P 16 Bright House	L 25 Network	# 396		E ause 96" - u	Comment Status			
Clause 96" before the	a in "Clause 23, Clause 24, Cla e last "and" - see for more deta t.com/od/grammarfaq/f/QAoxfo	ails:		Response		f "and" - likely, the <i>Response Status</i>			καμ
SuggestedRemedy				ACCEPT.					
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i	Clause 24, Clause 32, Clause 24, Clause 32, Clause 36, Claus n 1.4.xxx for missing serial con	se 40, and Claus	e 96"		30.5.1.1.1 rek	-	22 ht House Netwo	L 39 ork	# 400
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across).	24, Clause 32, Clause 36, Claus in 1.4.xxx for missing serial con	se 40, and Claus	e 96"	Cl 30 SC Hajduczenia, Ma Comment Type	rek E	Brig Comment Statu	ht House Netwo	ork	
"Clause 23, Clause 2 Scrub all definitions i	24, Clause 32, Clause 36, Claus	se 40, and Claus	e 96"	Cl 30 SC Hajduczenia, Ma Comment Type	rek E rial instruction	Brig Comment Status	ht House Netwo	ork	
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across). Response ACCEPT.	24, Clause 32, Clause 36, Claus in 1.4.xxx for missing serial con	se 40, and Claus nma (there are at	e 96" t least 5 instances I	Cl 30 SC Hajduczenia, Ma Comment Type Wrong editor section of 30 SuggestedReme	E E 0.5.1.1.11 as	Brig Comment Status	ht House Netwo s A t paragraph in E	BEHAVIOU	IR DEFINED AS
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across). Response ACCEPT. Use commentors sug	24, Clause 32, Clause 36, Claus n 1.4.xxx for missing serial con <i>Response Status</i> C ggested remedy. Draft will be so <i>P</i> 16	se 40, and Claus nma (there are at crubbed for all mi <i>L</i> 32	e 96" t least 5 instances I	Cl 30 SC Hajduczenia, Ma Comment Type Wrong editor section of 30 SuggestedReme Likely, the in	E E 0.5.1.1.11 as dy tent is to ac	Brig Comment Statue on: Change the firs s follows: Id the statement at	the end of the e	BEHAVIOU existing des	IR DEFINED AS
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across). Response ACCEPT. Use commentors sug C/ 01 SC 1.4.157 Hajduczenia, Marek	24, Clause 32, Clause 36, Claus n 1.4.xxx for missing serial con <i>Response Status</i> C ggested remedy. Draft will be so P 16 Bright House	se 40, and Claus nma (there are at crubbed for all mi <i>L</i> 32	e 96" t least 5 instances I issing commas.	Cl 30 SC Hajduczenia, Ma Comment Type Wrong editor section of 30 SuggestedReme Likely, the in change the v	E E 0.5.1.1.11 as dy tent is to ac	Brig Comment Statue on: Change the firs s follows: Id the statement at	t House Netwo A t paragraph in E the end of the e e shown text. P	BEHAVIOU existing des	IR DEFINED AS
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across). Response ACCEPT. Use commentors sug C/ 01 SC 1.4.157 Hajduczenia, Marek Comment Type E Incorrect link to Clau	24, Clause 32, Clause 36, Clause in 1.4.xxx for missing serial con <i>Response Status</i> C ggested remedy. Draft will be so <i>P</i> 16 Bright House <i>Comment Status</i> A se 96 in text "(See Clause 40 a	se 40, and Claus nma (there are at crubbed for all mi <i>L</i> 32 Network	e 96" t least 5 instances I issing commas. # 397	Cl 30 SC Hajduczenia, Ma Comment Type Wrong editor section of 30 SuggestedReme Likely, the in change the v instruction Response ACCEPT IN	rek E tial instruction 0.5.1.1.11 as dy tent is to act vhole existin PRINCIPLE	Brig Comment Status on: Change the firs s follows: Id the statement at ng description to th Response Status	t House Netwo A t paragraph in F the end of the e e shown text. P C	BEHAVIOU existing des	IR DEFINED AS scription, and not fy and fix the editorial
Change "Clause 23, "Clause 23, Clause 2 Scrub all definitions i came across). Response ACCEPT. Use commentors sug Cl 01 SC 1.4.157 Hajduczenia, Marek Comment Type E	24, Clause 32, Clause 36, Clause in 1.4.xxx for missing serial con <i>Response Status</i> C ggested remedy. Draft will be so <i>P</i> 16 Bright House <i>Comment Status</i> A se 96 in text "(See Clause 40 a	se 40, and Claus nma (there are at crubbed for all mi <i>L</i> 32 Network	e 96" t least 5 instances I issing commas. # 397	Cl 30 SC Hajduczenia, Ma Comment Type Wrong editor section of 30 SuggestedReme Likely, the in change the v instruction Response ACCEPT IN	rek E tial instruction 0.5.1.1.11 as dy tent is to act vhole existin PRINCIPLE	Brig Comment Status on: Change the firs s follows: Id the statement at ng description to th Response Status	t House Netwo A t paragraph in F the end of the e e shown text. P C	BEHAVIOU existing des	IR DEFINED AS

C/ 45 SC 45.2.1.7	.4 P 25	L 1	# 401	CI 45	SC 45.2.	1.2001.1	P 26	L 42	# 403
Hajduczenia, Marek	Bright House	e Network		Hajduczer	nia, Marek		Bright House	Network	
0	Comment Status A 45.2.1.7.4 and 45.2.1.7.5 do f the table, beginning of the t			indica mine	is that two se ate MASTER-	ntences were SLAVE config	value bit 1.2100.14	is used to deter	<i>manual config</i> set to one in order to accordingly to make
	structions in both subclauses.			Suggeste	dRemedy				
Response	Response Status C			Per co	omment				
5	ctions to state that the new co 45.2.1.7.4) and Table 45-10 (001 P 26			Chan "Bit 1	EPT IN PRING ge text to rea .2100.15 retu	CIPLE. d: rns a one to in	dicate that MASTE		0
lajduczenia, Marek	Bright House	e Network		MAST	TER or SLAV	Ε."			
correct number is 45.2 the end of 45.2.1.xxx.	Comment Status R Ily a correct number. Looking 2.1.107 onwards - no other pr	at the recent dra		C/ 96 Tazebay, <i>Comment</i> "DAT	Туре Е	Comm	P 50 Broadcom ent Status A Id be all lower case	L 24	# 404
SuggestedRemedy				Suggeste	•				
Response	auses 45.2.1.2001, 45.2.1.20 Response Status C	02, 45.2.1.2003		00	,	SD (after one D	DATA packet)" to	" The ESD (af	ter one data packet)
REJECT. Editing instructions ind renumbered as neces	dicate to the 802 editors that sary.	these subclause	numbers are to be	Response ACCE		Respor	ose Status C		

C/ 96 SC 96.4								
	P 55	L 44	# 405		C 96.5.2	P 63	L 36	# 408
Tazebay, Mehmet	Broadcom			Tazebay, Mehr	net	Broadcom		
Comment Type E	Comment Status A			Comment Type		Comment Status A		
	 -48), the statement suggests is the TX PSD is defined rather 			There is a	ypo for "gs	1" as it should be g(x)		
must be revised.	s the TX PSD is defined fath	er than a tempia	ite, the statement	SuggestedRen	ledy			
SuggestedRemedy				Change "g	s1" to "g(x)			
	is a voltage" to " PAM3 w	hich is an amplit	tude"	Response		Response Status C		
-	-			ACCEPT.				
Change "3 discrete differ signal levels [-1, 0, +1]."	rential voltage levels [-1, 0, +	1] volts." to "3 di	iscrete differential	Use comm	entors sug	gested remedy.		
Response	Response Status C							"
, ACCEPT.					C 96.5.2	P 63	L 45	# 409
				Tazebay, Mehr	net	Broadcom		
Use commentors sugges	sted remedy.			Comment Type		Comment Status A		
C/ 96 SC 96.4.4	P 45	L 5	# 406			ernary symbol sequence shall oplicable to single pair operation		nultaneously to all
Tazebay, Mehmet	Broadcom			SuggestedRen	iedv			
Comment Type E	Comment Status A				•	symbol sequence shall be pre	sented simultan	eously to all
Figure 96-15 PHY Contr	ol State Diagram, "BroadR-R	leach" should be	e removed.	transmitter				
SuggestedRemedy				Response		Response Status C		
Remove "BroadR-Reach attached.	n" in Figure 96-14. The file Ph	nycontrolstatedia	agram_fig96_15.vsd is	ACCEPT.				
allauneu.				Use comm	entors suge	gested remedy.		
_	Response Status C							
Response	Response Status C			CI 96 S	0.9654	P 66	12	# 410
_	Response Status C				C 96.5.4	P 66 Broadcom	L 2	# 410
Response ACCEPT.	Response Status C	L 32	# 407	Tazebay, Mehr	net	Broadcom	L 2	# 410
Response ACCEPT. C/ 96 SC 96.5.5.3	• •	L 32	# 407	Tazebay, Mehr Comment Type	net E	Broadcom Comment Status A		# 410
Response ACCEPT. C/ 96 SC 96.5.5.3 Fazebay, Mehmet	P71	L 32	# 407	Tazebay, Mehr Comment Type The word	net E each" is no	Broadcom		# <u>410</u>
Response ACCEPT. Cl 96 SC 96.5.5.3 Fazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line	P 71 Broadcom Comment Status A 2 32, 34), "NOISE SOURCE .	." should be lowe		Tazebay, Mehr Comment Type The word ' SuggestedRen	net E each" is no nedy	Broadcom <i>Comment Status</i> A t redundant in "to each transm	itter output"	
Response ACCEPT. C/ 96 SC 96.5.5.3 Tazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should	P 71 Broadcom Comment Status A	." should be lowe		Tazebay, Mehr Comment Type The word ' SuggestedRen Change "	net E each" is no nedy	Broadcom <i>Comment Status</i> A It redundant in "to each transm ansmitter output." to " to the	itter output"	
Response ACCEPT. Cl 96 SC 96.5.5.3 Fazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should SuggestedRemedy	P 71 Broadcom Comment Status A e 32, 34), "NOISE SOURCE . d be changed to "100BASE-T	." should be lowe	er case and "BroadR-	Tazebay, Mehr Comment Type The word ' SuggestedRen Change " Response	net E each" is no nedy	Broadcom <i>Comment Status</i> A t redundant in "to each transm	itter output"	
Response ACCEPT. Cl 96 SC 96.5.5.3 Tazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should SuggestedRemedy Change "NOISE SOURC	P 71 Broadcom Comment Status A 2 32, 34), "NOISE SOURCE . d be changed to "100BASE-T CE (BroadR-Reach 100Mbps	." should be lowe 1" COMPLIANT TI	er case and "BroadR- RANSMITTER	Tazebay, Mehr Comment Type The word ' SuggestedRen Change "	net E each" is no nedy	Broadcom <i>Comment Status</i> A It redundant in "to each transm ansmitter output." to " to the	itter output"	
Response ACCEPT. C/ 96 SC 96.5.5.3 Tazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should SuggestedRemedy Change "NOISE SOURC SENDING IDLES NONS TEST to " Noise source (100B/	P 71 Broadcom Comment Status A 32, 34), "NOISE SOURCE . be changed to "100BASE-T CE (BroadR-Reach 100Mbps SYNCHRONOUS TO THE Br ASE-T1 compliant transmitter	." should be lowe 1" COMPLIANT TI oadR-Reach TR	er case and "BroadR- RANSMITTER ANSMITTER UNDER	Tazebay, Mehr Comment Type The word ' SuggestedRen Change " Response ACCEPT.	E each" is no nedy to each tra	Broadcom <i>Comment Status</i> A It redundant in "to each transm ansmitter output." to " to the	itter output"	-
Response ACCEPT. Cl 96 SC 96.5.5.3 Tazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should SuggestedRemedy Change "NOISE SOURC SENDING IDLES NONS TEST to " Noise source (100B/ 100BASE-T1 transmitter	P 71 Broadcom Comment Status A e 32, 34), "NOISE SOURCE . d be changed to "100BASE-T CE (BroadR-Reach 100Mbps SYNCHRONOUS TO THE Brit ASE-T1 compliant transmitted r under test)"	." should be lowe 1" COMPLIANT TI oadR-Reach TR	er case and "BroadR- RANSMITTER ANSMITTER UNDER	Tazebay, Mehr Comment Type The word ' SuggestedRen Change " Response ACCEPT.	each" is no eady to each tra	Broadcom <i>Comment Status</i> A It redundant in "to each transm ansmitter output." to " to the <i>Response Status</i> C	itter output"	
Response ACCEPT. Cl 96 SC 96.5.5.3 Tazebay, Mehmet Comment Type E In 96.5.5.3 (page 71 line Reach 100Mbps" should SuggestedRemedy Change "NOISE SOURC SENDING IDLES NONS TEST to " Noise source (100B/	P 71 Broadcom Comment Status A 32, 34), "NOISE SOURCE . be changed to "100BASE-T CE (BroadR-Reach 100Mbps SYNCHRONOUS TO THE Br ASE-T1 compliant transmitter	." should be lowe 1" COMPLIANT TI oadR-Reach TR	er case and "BroadR- RANSMITTER ANSMITTER UNDER	Tazebay, Mehr Comment Type The word ' SuggestedRen Change " Response ACCEPT.	each" is no eady to each tra	Broadcom <i>Comment Status</i> A It redundant in "to each transm ansmitter output." to " to the <i>Response Status</i> C	itter output"	

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 96.5.4.4								
	P 69	L 5	# 411	CI 96	SC 96.7.1.2	P 73	L 31	# 413
azebay, Mehmet	Broadcom			Tazebay, I	Mehmet	Broadcom		
Comment Type E	Comment Status A			Comment	Туре Е	Comment Status A		
100BASE-T1 specifies T	5, 6), the statement sugges X PSD in order to provide th ore, any statement regarding	ne best flexibility	for signal spectrum		ced 1-pair UTP c	ne 31, 32), "This insertion los abling pair, equipment cables		
uggestedRemedy				Suggested	dRemedy			
than that, the time doma	differential voltage levels [-1 in templates for voltage level	els"				n loss includes the attenuatio and connector losses."	n of the balanced	d 1-pair UTP cabling
	tial signal levels. The time do	omain templates	for signal levels	Response	•	Response Status C		
Response ACCEPT.	Response Status C			ACCE	PT IN PRINCIPL	.E.		
ACCEPT.				ls not	redundent?			
C/ 96 SC 96.7.1 Fazebay, Mehmet	P 72 Broadcom	L 51	# 412	Use co	ommentors sugg	ested remedy.		
Comment Type E	Comment Status A			C/ 96	SC 96.7.1.3	P 59	L 37	# 414
	e 51, 53), "The cabling syste			Tazebay, I	Mehmet	Broadcom		
	n components used in Figure	96-24 comprise	1-pair UTP cables up	O a m m m t				
	itian and radundant		pro en	Comment	Type E	Comment Status A		
•	ition and redundant.		p p	There	is an extra "shal	I" in "The return loss shall of	the link segment	t in Figure 96-24 shal
SuggestedRemedy		o support"		There meet .	is an extra "shal " which needs t	I" in "The return loss shall of	the link segment	t in Figure 96-24 shal
SuggestedRemedy	ition and redundant. /stem used in Figure 96-24 to	o support"		There meet . <i>Suggested</i>	is an extra "shal " which needs t dRemedy	l" in "The return loss shall of to be removed	the link segment	t in Figure 96-24 shal
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy	rstem used in Figure 96-24 to rstem components used in F			There meet . <i>Suggested</i>	is an extra "shal " which needs t dRemedy	I" in "The return loss shall of to be removed after "The return loss"	the link segment	in Figure 96-24 shal
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length	rstem used in Figure 96-24 to rstem components used in F ."			There meet . Suggested Remo Response	is an extra "shal " which needs t dRemedy ve the first shall	l" in "The return loss shall of to be removed	the link segment	in Figure 96-24 shal
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length Response	rstem used in Figure 96-24 to rstem components used in F			There meet . Suggested Remo	is an extra "shal " which needs t dRemedy ve the first shall	I" in "The return loss shall of to be removed after "The return loss"	the link segment	in Figure 96-24 shal
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length	rstem used in Figure 96-24 to rstem components used in F ."			There meet . Suggested Remo Response	is an extra "shal " which needs t dRemedy ve the first shall	I" in "The return loss shall of to be removed after "The return loss"	the link segment	in Figure 96-24 shal
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length Response	rstem used in Figure 96-24 to rstem components used in F ."			There meet . Suggested Remo Response ACCE	is an extra "shal " which needs to dRemedy we the first shall PT. SC 96.7.2	l" in "The return loss shall of to be removed after "The return loss" <i>Response Status</i> C		
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length Response	rstem used in Figure 96-24 to rstem components used in F ."			There meet . Suggested Response ACCE C/ 96 Tazebay, I Comment	is an extra "shal " which needs to dRemedy ve the first shall PT. SC 96.7.2 Mehmet Type E	l" in "The return loss shall of to be removed after "The return loss" <i>Response Status</i> C <i>P</i> 74	L 23	# [415
SuggestedRemedy Remove "The cabling sy and Remove "The cabling sy cables up to 15m length Response	rstem used in Figure 96-24 to rstem components used in F ."			There meet . Suggested Remo Response ACCE CI 96 Tazebay, I Comment "(NEX Suggested	is an extra "shal " which needs to dRemedy we the first shall PT. SC 96.7.2 Mehmet Type E (T/FEXT) should dRemedy	l" in "The return loss shall of to be removed after "The return loss" <i>Response Status</i> C <i>P</i> 74 Broadcom <i>Comment Status</i> A	L 23	# [415

C/ 96 SC 96.7.2 P 74 L 25 # [- Tazebay, Mehmet Broadcom	416 C/ 96 SC 96.5.5.2 P 71 L 4 # 418 Tazebay, Mehmet Broadcom
Comment Type E Comment Status A	Comment Type E Comment Status A
439.In 96.7.2 (page 74 line 24, 25), there is an unnecessary date inserted in the	51
SuggestedRemedy Remove "6 November 2014"	SuggestedRemedy
Response Response Status C ACCEPT.	Remove the table. Change "The receiver shall properly receive incoming data with a symbol rate within the range:" to "The receiver shall properly receive incoming data with a symbol rate within the range
Use commentors suggested remedy.	66.666 MBd ± 100 ppm." Response Response Status C
C/ 96 SC 96.8.2 P 74 L 45 # 2 Tazebay, Mehmet Broadcom	ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A	Remove table.
Wrong table reference in "Table 96.7.1"	Change
SuggestedRemedy Change "Table 96.7.1" to "Table 96.7"	"The receiver shall properly receive incoming data with a symbol rate within the range:"
	to
Response Response Status C ACCEPT IN PRINCIPLE.	"The receive feature shall properly receive incoming data with a symbol rate within the
	range 66.666MBd +- 100 ppm."
See response to comment #588.	C/ 96 SC P 12 L 54 # 419
See response to comment #588.	
See response to comment #588.	C/ 96 SC P12 L 54 # 419
See response to comment #588.	C/ 96SCP 12L 54# 419Tazebay, MehmetBroadcom
See response to comment #588.	Cl 96 SC P 12 L 54 # [419] Tazebay, Mehmet Broadcom Comment Type E Comment Status A "TXMODE" needs to be replaced with "tx_mode" in order to stay consistent. 1.In Contents, (page 12, line 54) and (page 13, line 1, 4 and 5) 2.In 96.3.2.2.2 (page 41, line 29, 44, 47, 51)
See response to comment #588.	Cl 96 SC P 12 L 54 # 419 Tazebay, Mehmet Broadcom Comment Type E Comment Status A "TXMODE" needs to be replaced with "tx_mode" in order to stay consistent. 1.1n Contents, (page 12, line 54) and (page 13, line 1, 4 and 5) 2.1n 96.3.2.2.2 (page 41, line 29, 44, 47, 51) 3.In 96.3.2.4.6 (page 48, line 7, 34, 38) and (page 49, line 3, 17, 37, 40)
See response to comment #588.	Cl 96 SC P 12 L 54 # 419 Tazebay, Mehmet Broadcom Comment Type E Comment Status A "TXMODE" needs to be replaced with "tx_mode" in order to stay consistent. 1.1n Contents, (page 12, line 54) and (page 13, line 1, 4 and 5) 2.In 96.3.2.2.2 (page 41, line 29, 44, 47, 51) 3.In 96.3.2.4.6 (page 48, line 7, 34, 38) and (page 49, line 3, 17, 37, 40) SuggestedRemedy

C/ 96 SC 1.4 Tazebay, Mehmet	P 16 Broadcom	L 23	# 420	C/ 96SCP 17L 3# 423Tazebay, MehmetBroadcom
symbols" and it is l	Comment Status A redundant in "A set of ternary PA better to delete it.	AM3		Comment Type E Comment Status A Missing underline for "and Clause 96" in the following locations: 1. In 1.4.183 (page 17, line 3) 2. In 1.4.381 (page 18, line 3)
SuggestedRemedy Change "For 100BAS of ternary symbols'	SE-T1. A set of ternary PAM3 sy ".	mbols" to "Fo	r 100BASE-T1, a set	3. In 1.4.x name (page 18, line 16) SuggestedRemedy
Response ACCEPT IN PRINCIF	Response Status C PLE.			Underline the text for these locations. <i>Response</i> ACCEPT. C
Change "For 100BAS of ternary symbols'	SE-T1, A set of ternary PAM3 sy ".	mbols" to "Fo	r 100BASE-T1, a set	Cl 96 SC 1.4.381 P 18 L 2 # 424
C/ 96 SC 1.4x	P 18	L 22	# 421	Tazebay, Mehmet Broadcom
Tazebay, Mehmet Comment Type E	Broadcom Comment Status A			Comment Type E Comment Status A The symbol rate has a 15 nanoseconds for the line code and the code group (2 PAM3 symbols) have thirty seconds.
SuggestedRemedy	ees to have the iteration bar on t ar" to the last digit of 33.333 MF		jnt.	SuggestedRemedy Change "In 100BASE-T1 this is equivalent to thirty nanoseconds." to "In 100BASE-T1, th is equivalent to fifteen nanoseconds with a code group of thirty nanoseconds.".
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.
See response to com	iment 511.			Use the commentors suggested remedy.
C/ 96 SC 1.4.382 Tazebay, Mehmet	P 18 Broadcom	L 8	# 422	C/ 96 SC 1.4.183 P 17 L 1 # 425 Tazebay, Mehmet Broadcom
locations:	Comment Status A ds to have iteration bar on top o	of the last digit in	the following	Comment Type E Comment Status A Missing "s" in the word "code-group" as it should be plural. SuggestedRemedy
1. In 1.4.382 (page 2. In 96.1.2.2 (page				Change " ESD consists of the code-group of 3 consecutive" to "ESD consists of the cod groups of 3 consecutive".
		1-7		Response Response Status C
uggestedRemedy	ar" to the last digit of 66 666 ML	IZ.		ACCEPT IN PRINCIPLE.
SuggestedRemedy Insert "the iteration ba	ar" to the last digit of 66.666 MH			ACCEPT IN PRINCIPLE.
SuggestedRemedy	ar" to the last digit of 66.666 M⊦ Response Status C			See response to comment #140.

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 1.4.x P 18 L 19 # 426 Tazebay, Mehmet Broadcom	C/ 96 SC 96.1.1 P 29 L 23 # 428 Tazebay, Mehmet Broadcom
Comment Type E Comment Status A There is an additional "are" in the sentence " having specified transmission characteristics are provided in 96.7.1"	Comment Type E Comment Status A Add "full duplex" as following to clarify support of full duplex operation only. SuggestedRemedy
SuggestedRemedy	Insert "full duplex operation" after " at 100 Mb/s
Change " having specified transmission characteristics are provided in 96.7.1" to "having specified transmission characteristics provided in 96.7.1	Response Response Status C ACCEPT.
Response Response Status C ACCEPT.	C/ 96 SC 96.1.2.3 P 30 L 17 # 429 Tazebay, Mehmet Broadcom
Use commentors suggested remedy.	Comment Type E Comment Status A
C/ 96 SC 1.4.x P18 L 21 # 427	There are unnecessary underscores in the text and they should be removed.
azebay, Mehmet Broadcom	SuggestedRemedy
Comment Type E Comment Status A	Change "PMA transmits over _each wire pair" to "PMA transmits over each wire pair."
The statement " the data encoding technique used by the PHY when converting MII data (4B-4 bits) with 25 MHz clock to 3 bits (3B) wide of data that is transmitted during one 33.333 MHz clock period" can be improved in order to provide clarity.	Response Response Status C ACCEPT IN PRINCIPLE.
uggestedRemedy	See response to comment #514.
Change " the data encoding technique used by the PHY when converting MII data (4B-4 bits) with 25 MHz clock to 3 bits (3B) wide of data that is transmitted during one 33.333 MHz clock period. (See 96.3.2.2.2)" to	C/ 96 SC 96.4.4 P 58 L 23 # 430 Tazebay, Mehmet Broadcom
" the data encoding technique used by the PHY when converting 4 bits (4B) MII data at 25MHz clock to 3 bits (3B) data that is transmitted during one 33.333 MHz clock period. (See 96.3.2.2.2)".	Comment Type E Comment Status A It is necessary to include the speed information when mentioning the mode operation in this statement.
ACCEPT IN PRINCIPLE.	SuggestedRemedy Insert "in 100 Mb/s" after " into the mode of operation"
Change " the data encoding technique used by the PHY when converting MII data (4B-4 bits) with 25 MHz clock to 3 bits (3B) wide of data that is transmitted during one 33.333 MHz clock period" to	Response Response Status C ACCEPT.
" the data encoding technique used by the PHY when converting 4 bits (4b) MII data at 25MHz clock to 3 bits (3b) data that is transmitted during one 33.333 MHz clock period.	

Comment Type T Comment Status A There is a need for clarification how the Master and Slave assignment is done.
SuggestedRemedy Insert "set by Force mode" after " is used for MASTER and SLAVE assignment" Response Response Status C ACCEPT.
Cl 96 SC 96.3.3.1 P 51 L 3 # 435 Tazebay, Mehmet Broadcom Comment Type T Comment Status A In 96.9 PCS Receive state diagram (lines 3 & 4), link_status needs to revised to "FAIL" since there's no "FALSE" definition.
SuggestedRemedy Change "link_status = FALSE" to "link_status = FAIL". The file PCS_TX_RC_State_Machine.vsd is attached. Response Response Status C ACCEPT.
Cl 96 SC 96.3.2.3 P 42 L 8 # 436 Tazebay, Mehmet Broadcom Broadcom Comment Type T Comment Status A In Figure 96-5 (page 42 lines 8, 18, 27, 37), MII data is shown 2 nibbles of a byte (d0 d0 d1 d2 d2) for 4B3B MII signal conversion but it is not necessary and it should be
renumbered (d0 d1 d2 d3) SuggestedRemedy Revise the figure 96-5 in order to reflect "d0 d1 d2 d3" instead of "d0 d0 d1 d1". The file 4B3B_MII_conversion_Fig96_5_partA.vsd is attached. Response Response ACCEPT.

d2) for 4B3B MII sign (d0 d1 d2 d3). SuggestedRemedy Revise the figure 96-6 ir	P 43 Broadcom Comment Status A 3 lines 4, 13), MII data is shov al conversion but it is not nec n order to reflect "d0 d1 d2 d3 on_Fig96_5_partB.vsd is attac	essary and it sh	ould be renumbered	Cl 96 SC 96.7.2 Tazebay, Mehmet Comment Type T The frequency range i SuggestedRemedy Insert "where f is the f	P 74 Broadcom Comment Status A s missing for PSANEXT	L 23	# 440
In Figure 96-5 ((page 43 d2) for 4B3B MII sign (d0 d1 d2 d3). SuggestedRemedy Revise the figure 96-6 ir file 4B3B_MII_conversion	B lines 4, 13), MII data is show al conversion but it is not nec n order to reflect "d0 d1 d2 d3 on_Fig96_5_partB.vsd is attac	essary and it sh	ould be renumbered	The frequency range i SuggestedRemedy	s missing for PSANEXT		
Revise the figure 96-6 ir file 4B3B_MII_conversion	on_Fig96_5_partB.vsd is attac		d0 d0 d1 d1 " The	insert where its the i		z rongo "	
Response		oneu.		Response ACCEPT IN PRINCIP	Response Status C	z range.	
ACCEPT.	Response Status C			Frequency range will	pe added in the terminology disc	cussed in comm	nent 321. # 441
section at the end for sv SuggestedRemedy	P 55 Broadcom Comment Status A ded for the spectrum analyze veep time unit and the detecto or" after " sweep time>1" Response Status C		# 4 <u>38</u> s but there is a missing	SuggestedRemedy	Broadcom <i>Comment Status</i> A ection to a multi-pin connector is re "a multi-pin connector." <i>Response Status</i> C	s missing.	
Cl 96 SC 96.7.1.2 Tazebay, Mehmet Comment Type T The definition for insertio	P 73 Broadcom <i>Comment Status</i> A on loss does not specify the p	L 13	# <u>439</u> on.				
in Figure 96-24) shall be to "The insertion loss of	oss of the channel (one pair 1 e less than that contained in T the link segment as shown in all be less than values shown Response Status C	able 96-7:" Figure 96-24 w	hen measured with				

ACCEPT.

C/ 96 SC 96.5.4.5 P70 L 36 # 442	C/ 96 SC 45.2.1.2001 P 26 L 30 # 444
azebay, Mehmet Broadcom	Tazebay, Mehmet Broadcom
Comment Type T Comment Status A	Comment Type E Comment Status A
n 96.5.4.5 (page 70 line 36 to 38), there is no need for a table and symbol rate should be changed to Mbaud instead of MHz. This sections needs to be revised.	There is a typo in "Configre PHY as SLAVE"
5	SuggestedRemedy
SuggestedRemedy	Change "Configre PHY as SLAVE" to "Configure PHY as SLAVE"
Remove the table. Change "The symbol transmission rate of the 100BASE-T1 PHY in MASTER mode shall be within the range:" to "The symbol transmission rate of the 100BASE-T1 PHY in MASTER mode shall be	ResponseResponse StatusCACCEPT.
within the range: of 66.666MBd +- 100 ppm."	See response to comment 160.
Response Response Status C	C/ 96 SC 1.4.377 P 17 L 38 # 445
ACCEPT IN PRINCIPLE.	Tazebay, Mehmet Broadcom
Remove table.	Comment Type E Comment Status A
Observe	There is an additional "sosb" which does not belong to the sentence.
Change "The symbol transmission rate of the 100BASE-T1 PHY in MASTER mode shall be within the range:"	SuggestedRemedy Remove "sosb"
to	Response Response Status C
	ACCEPT.
"The symbol transmission rate of the MASTER PHY shall be 66.666 MBd +- 100 ppm." (similar to 40.6.1.2.6)	
х	Cl 96 SC 96.3.2.3.1 P 44 L 33 # 446
C/ 96 SC 96.3.3.1 P 52 L 2 # 443	Tazebay, Mehmet Broadcom
Fazebay, Mehmet Broadcom	Comment Type E Comment Status A
Comment Type T Comment Status A 11.In 96.3.3.1 (page 52 line 2) Figure 96-10, the pcs_reset is missing for JABIDLE state. The figure needs to be updated. The corrected figure Figure 96 10 JAB State Diagram v2.docx is attached.	In 96.3.2.3.1 (page 44 line 33), "100BT1receive" is being defined but not being used elsewhere in this document. Clause 40 has a similar one named "1000BTreceive" but "receiving" has been defined in this document. Therefore, 100BT1receive" should be removed.
SuggestedRemedy	SuggestedRemedy
Insert "pcs reset" in JABIDLE state in Figure 96.10.	Remove "100BASET1receive" including the lines 33 to 35 on Page 44.
	Response Response Status C
Response Response Status C ACCEPT.	ACCEPT.
	Use commentors suggested remedy.

Tazebay, Mehmet Bro	P 45 L 7 badcom	# 447	<i>Cl</i> 96 <i>SC</i> 96.5 Tazebay, Mehmet	P 62 Broadcom	L 25	# 450
Comment Type E Comment Statu 2.In 96.3.2.3.1 (page 45 line 7), 100BT1tr elsewhere in this document. Clause 40 ha does not apply to 100BASE-T1	ransmit" is being defined			Comment Status A " should change to "EMC Tests" a his section is to give information a		
SuggestedRemedy Remove "100BASET1transmit" including	lines from 7 to 11 on Pag	e 45.	SuggestedRemedy Change "EMC Requi	irements" to "EMC Tests"		
Response Response Statu ACCEPT.	us C		Response ACCEPT.	Response Status C		
	P 18 <i>L</i> 25 badcom	# 448	C/ 96 SC 96.5.2 Tazebay, Mehmet	P 62 Broadcom	L 52	# 451
Comment Type E Comment Statu 1D-PAM3 is not used. Therefore, it should			Comment Type E Replace "are" with "s	Comment Status A shall be" as the test modes are real	quirements for	compliancy testing.
SuggestedRemedy Remove "1.4.x 1D-PAM3: The symbol en 1D-PAM3. The one dimensional ternary (26.2.2) are tooramitted using three values	(1D) code groups from PC ge signal levels (PAM3). C	S Transmit (See Clause	SuggestedRemedy Change "described in provided". Response	n Table 96-4 are provided" to "des Response Status C	scribed in Table	e 96-4 shall be
96.3.2) are transmitted using three voltag in each symbol period." from lines 25 to 2 Response Response Statu ACCEPT.	•		ACCEPT IN PRINCI See response to con			
in each symbol period." from lines 25 to 2 Response Response Statu ACCEPT.	•	# 449	ACCEPT IN PRINCI		L 18	# 452
in each symbol period." from lines 25 to 2 Response Response Statu ACCEPT.	us C P 57 L 18 padcom us A	# 449	ACCEPT IN PRINCI See response to con Cl 96 SC 45.2.1 Tazebay, Mehmet Comment Type E	nment 94. P 24	L 18	# 452
in each symbol period." from lines 25 to 2 Response Response Statu ACCEPT. Cl 96 SC 96.4.2 F Fazebay, Mehmet Bro Comment Type E Comment Statu	us C P 57 L 18 padcom us A	# 449	ACCEPT IN PRINCI See response to con Cl 96 SC 45.2.1 Tazebay, Mehmet Comment Type E	nment 94. P 24 Broadcom <i>Comment Status</i> A 1.2001" should be "45.2.1.2002".	L 18	# 452

C/ 96 SC 96.5.5.1 Tazebay, Mehmet	P 70 Broadcom	L 50	# 453	C/ 96 SC 1.3 Tazebay, Mehmet	P 16 Broadcom	L 3	# 456
Comment Type E	Comment Status R h "Table 96-7" for consistenc	sy.		Comment Type T The reference for	Comment Status A CISPR 25 is missing.		
SuggestedRemedy Change "Table 96.7" to " Response REJECT.	Table 96-7". Response Status C			"IEC CISPR 25 Ed	reference for CISPR 25 lition 3.0 2008-03 : Vehicles, boa characteristics - Limits and meth ers".	ts and internal c nods of measure	ombustion engines - ment for the protection
See response to comment changing wording around	nt 90. Tale 96-7 doesn't exist J.	t, and comment	90 suggests	Response ACCEPT.	Response Status C		
C/ 96 SC Fazebay, Mehmet	P 13 Broadcom	L 17	# 454	C/ 96 SC 1.4.1 Tazebay, Mehmet	63 P 16 Broadcom	L 44	# 457
Comment Type E				• •			
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy	e 17), replace "Media" with "M ninology in 803.2. The same Attachment" to "Physical Me	also in 96.1 (pa	age 29 line 12,13) and	three. SuggestedRemedy Change "This mod	the text "two Start-of-Stream delin le begins with transmission of two is mode begins with transmission ".	o Start-of-Stream	n delimiter code-groups
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy Change "Physical Media being used.	ninology in 803.2. The same	also in 96.1 (pa	age 29 line 12,13) and	three. SuggestedRemedy Change "This moo followed by" to "Th	le begins with transmission of two is mode begins with transmission	o Start-of-Stream	n delimiter code-groups
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy Change "Physical Media being used. Response ACCEPT.	ninology in 803.2. The same Attachment" to "Physical Me	also in 96.1 (pa	age 29 line 12,13) and	three. SuggestedRemedy Change "This mod followed by" to "Th groups followed by Response	le begins with transmission of two is mode begins with transmission ". <i>Response Status</i> C	o Start-of-Stream	n delimiter code-groups
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy Change "Physical Media being used. Response ACCEPT. C/ 96 SC 96.3.3.1 Fazebay, Mehmet Comment Type E In 96.3.3.1 (page 52 line should be "rcv_max_time	ninology in 803.2. The same Attachment" to "Physical Me <i>Response Status</i> C <i>P</i> 52	also in 96.1 (pa edium Attachme <i>L</i> 22 typo in "rcvr_ma	age 29 line 12,13) and int" everywhere that is # 455	three. SuggestedRemedy Change "This mod followed by" to "Th groups followed by Response ACCEPT. Cl 96 SC 96.1 Tazebay, Mehmet Comment Type T There is a missing "one pair UTP cat	le begins with transmission of two is mode begins with transmission ". <i>Response Status</i> C 1 P 29	o Start-of-Stream n of three Start-o <i>L</i> 25	n delimiter code-groups of-Stream delimiter cod # 458 ded for clarification and
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy Change "Physical Media being used. Response ACCEPT. C/ 96 SC 96.3.3.1 Fazebay, Mehmet Comment Type E In 96.3.3.1 (page 52 line should be "rcv_max_time Figure_96_10_JAB_State SuggestedRemedy	Attachment" to "Physical Me Response Status C P52 Broadcom Comment Status A 22) Figure 96-10, there is a t er_done". The corrected figur	also in 96.1 (pa edium Attachme <i>L</i> 22 typo in "rcvr_ma re ned.	age 29 line 12,13) and int" everywhere that is # 455	three. SuggestedRemedy Change "This mod followed by" to "Th groups followed by Response ACCEPT. Cl 96 SC 96.1 Tazebay, Mehmet Comment Type T There is a missing "one pair UTP cat SuggestedRemedy	le begins with transmission of two is mode begins with transmission r". <i>Response Status</i> C 1 <i>P</i> 29 Broadcom <i>Comment Status</i> A reference to the channel and 96	o Start-of-Strean n of three Start-o <i>L</i> 25 7 should be add balanced twisted	n delimiter code-groups of-Stream delimiter cod # <u>458</u> ded for clarification and d pair"
In Contents (page 13 line Attachment is proper terr 96.4 (page 55 line 42). SuggestedRemedy Change "Physical Media being used. Response ACCEPT. Cl 96 SC 96.3.3.1 Fazebay, Mehmet Comment Type E In 96.3.3.1 (page 52 line should be "rcv_max_time Figure_96_10_JAB_State SuggestedRemedy Change "rcvr_max_timer	Attachment" to "Physical Me Response Status C P 52 Broadcom Comment Status A 22) Figure 96-10, there is a t er_done". The corrected figur e_Diagram_v2.docx is attach	also in 96.1 (pa edium Attachme <i>L</i> 22 typo in "rcvr_ma re ned.	age 29 line 12,13) and int" everywhere that is # 455	three. SuggestedRemedy Change "This mod followed by" to "Th groups followed by Response ACCEPT. Cl 96 SC 96.1 Tazebay, Mehmet Comment Type T There is a missing "one pair UTP cab SuggestedRemedy Change "(over a co	le begins with transmission of two is mode begins with transmission ". <i>Response Status</i> C 1 <i>P</i> 29 Broadcom <i>Comment Status</i> A reference to the channel and 96 le" should be changed to "single ne pair UTP cable)" to "(over a si <i>Response Status</i> C	o Start-of-Strean n of three Start-o <i>L</i> 25 7 should be add balanced twisted	n delimiter code-groups of-Stream delimiter cod # <u>458</u> ded for clarification and d pair"

C/ 96 SC 96.4.3 P 57 L 40 Tazebay, Mehmet Broadcom	# 459	Cl 96 SC 96.2.5.2 P 36 Tazebay, Mehmet Broadcom	L 3 # 461
Comment Type ER Comment Status A "SCR_STATUS" should be all lower case "scr_status". SuggestedRemedy		Comment Type TR Comment Status A The PCS continuously generates PMA_UNITDATA.rec with every transmit clock TX_TCLK cycle. Therefore, "o be specified.	
Change "SCR_STATUS" to "scr_status".		SuggestedRemedy	
Response Response Status C ACCEPT.		Insert "continuously" after "The PCS".	
		Insert "TX_TCLK" after " every transmit clock"	
Use commentors suggested remedy.		Response Response Status C	
C/ 96 SC 96.3.3.1.1 P 53 L 27 Tazebay, Mehmet Broadcom	# 460	ACCEPT IN PRINCIPLE.	
Comment Type ER Comment Status A "RXn " is a typo and it should be "Rxn"		Change "The PCS generates PMA_UNITDATA.request (SYMB transmit clock cycle."	_1D) synchronously with every
SuggestedRemedy Change "RXn " to "Rxn ".		to	ugat (CVMD 1D) aurahrangualu wit
Response Response Status C ACCEPT.		"The PCS continously generates PMA_UNITDATA.req every TX_TCLK cycle."	uest (STMB_TD) synchronously with
Use commentors suggested remedy. Also mentioned in comment 4	66.	C/ 96 SC 96.3.2.3.4 P 46 Tazebay, Mehmet Broadcom	L 18 # 462
		Comment Type TR Comment Status A There is no need for PUDR as PCS clock is continuous TX_TCLK. It should be removed. SuggestedRemedy	sly generated by transmit clock
		Remove "PUDR" and its definition on lines 18 and 19 c	on page 46
		Response Response Status C ACCEPT.	

C/ 96 SC 96.3.3.1.1 Tazebay, Mehmet	P 53 Broadcom	L 33	# 463	C/ 96 SC 96.3.2.3	P 43 Broadcom	L 20	# 465
Comment Type TR It is not necessary to def Transmit symbol pair cor "TSPCD Transmit Symbol Pair Co frequency 33.333 MHz." SuggestedRemedy On page 53 lines 33,34,	Comment Status A fine TSPCD (Transmit Symv nversion occurrs on every T) onverted Done, synchronized	X_TCLK. Thereford with PCS trans	ore, mit clock pc_txclk of Transmit Symbol Pair	Tazebay, Mehmet <i>Comment Type</i> TR In Figure 96-6 PCS Trans PCS Transmit State Diag <i>SuggestedRemedy</i> Change figure 96.6 as su <i>Response</i> ACCEPT.	Comment Status A smit State Diagram, "TSPC gram is attached.	D" must be remo	oved.
Response ACCEPT.	Response Status C			C/ 96 SC 96.3.3.1 Tazebay, Mehmet	P 51 Broadcom	L 2	# 466
be moved to 96.3.2.3.4. A SuggestedRemedy Move "RSPCD Receive Symbol Pair Co frequency 33.333 MHz."	P 46 Broadcom Comment Status A th belongs to 96.3.2.3.3 and Also, the symbol conversion onverted Done, synchronized to 96.3.2.3.3. ersion is as specified in 96.3	reference shoul	d be provided. /e clock pcs_rxclk of	transitioning to the IDLE i ii) A few instances of Rxn PCS Receive State Diago SuggestedRemedy Change figure 96.9 as su	n should be corrected from F ram is attached.		n the conditions for
Response ACCEPT. Move "RSPCD Receive Symbol Pair Co frequency 33.333 MHz." Change	Response Status C onverted Done, synchronized to 96.3.2.3.3.			process and not "tx_syml SuggestedRemedy Change "tx_symb_vector	P 45 Broadcom Comment Status A e correct terminology for the b_vector". Therefore, it show " to "tx_symb_pair". Response Status C		

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

C/ 96 SC 96.3.3.1.1 P 52 L # 468 Tazebay, Mehmet Broadcom Broadcom <td< th=""><th>C/ 96 SC 96.3.2.3.1 P 45 L 2 # 470 Tazebay, Mehmet Broadcom <</th></td<>	C/ 96 SC 96.3.2.3.1 P 45 L 2 # 470 Tazebay, Mehmet Broadcom <
Comment Type TR Comment Status A The definition for rx_symb_pair is missing and it should be added.	Comment Type TR Comment Status A The definition for SYMB_2D for "tx_symb_pair" value should be defined.
SuggestedRemedy Insert "rx_symb_pair A pair of ternary symbols generated by the PCS Receive function before ternary pair decoding.	SuggestedRemedy Insert ": A pair of ternary transmit symbols. Each of the ternary symbols may take on one of the values {-1, 0, or +1}." after "SYMB_2D". Response Response Status C ACCEPT.
Value: SYMB_2D: A pair of ternary receive symbols. Each of the ternary symbols may take on one of the values {-1, 0, or +1}."	Use commentors suggested remedy to add definition after line 42.
Response Response Status C ACCEPT.	C/ 01 SC 1.4.142 P 2 L 23 # 471 Mitsuru, Iwaoka Yokogawa Electric Cor Yokogawa
C/ 96 SC 96.3.3.1.2 P 53 L 48 # 469	Comment Type E Comment Status A A capital "A" after comma.
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair"	 (This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A".
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair"	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A". Response Response Status C
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair" SuggestedRemedy	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A".
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair" SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Change "rx_symb_vector"	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A". Response Response Status C ACCEPT.
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair" SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Change	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A". Response Status C ACCEPT. See response to comment #420. C/ 01 SC 1.4.313 P 3 L 10 # 472
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair" SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Change "rx_symb_vector" to	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A". Response Response Status C ACCEPT. See response to comment #420. C/ 01 SC 1.4.313 P3 L 10 # 472 Mitsuru, Iwaoka Yokogawa Electric Cor Comment Type E Comment Status A A duplicated "and". (This is the same comment as the D1.0 TF Review comment #91, which is accepted, but
Comment Type TR Comment Status A The "rx_symb_pair" is the correct terminology for the input argument of PCS Receive process and not "rx_symb_vector". Therefore, it should be changed to "rx_symb_pair" SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Change "rx_symb_vector" to	(This is the same comment as the D1.0 TF Review comment #90, which is accepted, but not implemented.) SuggestedRemedy Uncapitalize the "A". Response Response Status C ACCEPT. See response to comment #420. C/ 01 SC 1.4.313 P3 L 10 # 472 Mitsuru, Iwaoka Yokogawa Electric Cor Comment Type E Comment Status A A duplicated "and". (This is the same comment as the D1.0 TF Review comment #91, which is accepted, but not implemented.) SuggestedRemedy

	SC 1.4.x	P 4	L 29	# 473	C/ 01	SC 1.4.x	P 4	L 15	# 475	
/litsuru, Iw	suru, Iwaoka Yokogawa Electric Cor		Mitsuru, Iwaoka Yokogawa Electric Cor							
Comment Type E Comment Status A The current definition of "PHY-Initialization" describes why a primitive PHY-Initialization is necessary, but does not describe "PHY-Initialization" itself.					Comment T A supric		Comment Status 1.4.x name" exists.	Α		
Also, a definiti	ccording to the 20 ons clause), each	014 IEEE-SA Standards Sty definition shall not contain	le Manual 10.6.3 requirements or e	elaborative text. The	SuggestedRemedy Delete a definition of "1.4.x name".					
last sentence of the "PHY-Initialization" definition seems to specify a requirement of start- up procedure.					Response Response Status C ACCEPT IN PRINCIPLE.					
Suggested	Remedy				ACCEP		LL.			
Move current description to subclause 96.6.2 as the first paragraph, and modify the definition as follows:					Similar comment in 388, see the proposed change for this text there.					
		A primitive used to assign M ad of the auto-negociation p		VE by the station	C/ 01 Mitsuru, Iwa	SC 1.4.x oka	P 4 Yoko	gawa Electric Cor	# 476	
Response						Comment Type E Comment Status A It is necessary to define a term "100BASE-T1".				
See response to comment #132 and comment #141					SuggestedRemedy Insert a following new definition.					
/ 30 litsuru, Iw	SC 30.5.1.1.1 [.] aoka	1 P 8 Yokogawa Ele	L 41 ectric Cor	# 474	1.4.x 10 one pair	0BASE-T1: IE	EE 802.3 Physical La copper cabling. (See II	yer specification for a 1 EEE Std 802.3, Clause	00 Mb/s Ethernet using 96.)	
Comment Type E Comment Status R A link integrity state diagram is not specified in the draft. Figure 96-16 is "Link Monitor					-			C		
A link i	ntegrity state diag		draft. Figure 96-16	6 is "Link Monitor	Response ACCEP	T IN PRINCIP	Response Status LE.	C		
A link i State I (Same P802.3	ntegrity state diag Diagram". issues exists in I 8bx WG letter ball	gram is not specified in the c EEE 802.3-2012. Similar co	Ū		ACCEP PDF pa for a 10	ge 18 line 14,	LE. Insert "1.4.x 100BASE et full duplex local are	E-T1: IEEE 802.3 Physi	cal Layer specification balanced twisted-pair.	
A link i State I (Same P802.3	ntegrity state diag Diagram". issues exists in I 8bx WG letter ball <i>Remedy</i>	gram is not specified in the c EEE 802.3-2012. Similar co	mments are prov	ided to the IEEE	ACCEP PDF pa for a 10	ge 18 line 14, 0 Mb/s Ethern	LE. Insert "1.4.x 100BASE et full duplex local are	E-T1: IEEE 802.3 Physi a network over a single		
A link i State I (Same P802.3 uggesteo Replao	ntegrity state diag Diagram". issues exists in I 8bx WG letter ball <i>Remedy</i>	gram is not specified in the c EEE 802.3-2012. Similar co ot.)	mments are prov	ided to the IEEE	ACCEP PDF pa for a 10 (See IE	ge 18 line 14, 0 Mb/s Ethern EE Std 802.3, SC 1.5	LE. Insert "1.4.x 100BASE et full duplex local are Clause 96.)" P 4	E-T1: IEEE 802.3 Physi a network over a single	balanced twisted-pair.	
A link i State I (Same P802.3 uggesteo Replao	ntegrity state diag Diagram". issues exists in I Bbx WG letter ball <i>Remedy</i> ce "link integrity st	gram is not specified in the c EEE 802.3-2012. Similar co ot.) tate diagram" by "link monito	mments are prov	ided to the IEEE	ACCEP PDF pa for a 10 (See IE C/ 01	ge 18 line 14, 0 Mb/s Ethern EE Std 802.3, SC 1.5 oka	LE. Insert "1.4.x 100BASE et full duplex local are Clause 96.)" P 4	E-T1: IEEE 802.3 Physi a network over a single <i>L</i> 39 gawa Electric Cor	balanced twisted-pair.	
A link i State I (Same P802.3 uggesteo Replac esponse REJE0	ntegrity state diag Diagram". issues exists in I Bbx WG letter ball <i>Remedy</i> ce "link integrity st	gram is not specified in the c EEE 802.3-2012. Similar co ot.) tate diagram" by "link monito	mments are prov	ided to the IEEE	ACCEP PDF pa for a 10 (See IE C/ 01 Mitsuru, Iwa Comment T	ge 18 line 14, 0 Mb/s Ethern EE Std 802.3, SC 1.5 oka	LE. Insert "1.4.x 100BASE et full duplex local are Clause 96.)" P 4 Yoko Comment Status	E-T1: IEEE 802.3 Physi a network over a single <i>L</i> 39 gawa Electric Cor	balanced twisted-pair.	
A link i State I (Same P802.3 Suggested Replac Replac Replac REJEC	ntegrity state diag Diagram". issues exists in I Bbx WG letter ball <i>Remedy</i> ce "link integrity st	gram is not specified in the c EEE 802.3-2012. Similar co ot.) tate diagram" by "link monito <i>Response Status</i> C	mments are prov	ided to the IEEE	ACCEP PDF pa for a 10 (See IE C/ 01 Mitsuru, Iwa Comment T A supric SuggestedF	ge 18 line 14, 0 Mb/s Ethern EE Std 802.3, SC 1.5 oka ype E bus definition c	LE. Insert "1.4.x 100BASE et full duplex local are Clause 96.)" <i>P 4</i> Yoko <i>Comment Status</i> of "ABBR".	E-T1: IEEE 802.3 Physi a network over a single <i>L</i> 39 gawa Electric Cor	balanced twisted-pair.	

C/ 01 SC · Mitsuru, Iwaoka	1.5 P 4 Yokogawa	L 39 Electric Cor	# 478	<i>Cl</i> 96 Mitsuru, Iv	SC 96.5.5.3 vaoka	P 57 Yokogawa	L 32 Electric Cor	# 481
Comment Type It is better to c	E Comment Status A			Comment	Туре Е	Comment Status A term "BroadR-Reach" in th		
SuggestedRemed	y ing new definition of "DPI".				ce "BroadR-Read	ch" with "100BASE-T1" in t	he Figure 96-23 (t	wo occurences).
DPI Direct Po Response ACCEPT.	wer Injection Response Status C				PT IN PRINCIPL			
Use comment	ors suggested remedy.			C/ 01	SC 1.4.142	P 2	L 18	# 482
(Note; IEEE P	Yokogawa E Comment Status A lefine following abbrevations: "PSA/ 802.3bp D1.10 defines these abbre	ACRF","PSANEXT viations. However,	802.3bw will be	Suggested	<i>Type</i> E ned term "code_g	Comment Status A group:" should be bold.	Electric Cor	
SuggestedRemed Insert followin	g definitions:		802.3DW.)	Response ACCE See re		Response Status C		
PSANEXT p TCL trans	ower sum alien attenuation crosstal ower sum alien near-end crosstalk verse conversion loss overse conversion transmission loss			<i>Cl</i> 01 Mitsuru, Iv	SC 1.4.381 vaoka	Р 4 Yokogawa	L 2 Electric Cor	# 483
Response ACCEPT.	Response Status C			Comment 96.3.2		Comment Status A specifies that a symbol pe	riod is nominally e	equal to 15ns.
Cl 96 SC 9 Mitsuru, Iwaoka Comment Type	D6.4.4 P 45 Yokogawa E Comment Status A	L 1 Electric Cor	# 480	Suggested Repla Response ACCE	ce "thirty" by "fifte	een". Response Status C		
SuggestedRemed	n-defined term "BroadR-Reach" in th y adR-Reach" with "100BASE-T1" in t	-		See re	esponse to comm	ent 424.		
Response ACCEPT.	Response Status C							
See response	to comment 577.							

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

I 96.2. SC /ienckowski, Natalie	P 32 General Motors	L 26	# 484	Cl 96.3. SC Wienckowski, Natalie	P 40 General Motors	L 41	# 487
comment Type E Comn double period	nent Status A			Comment Type E Most definitions in this	Comment Status A s section use the variable name, i	not "it".	
uggestedRemedy Replace: configuration				Also, the diagram can set.	't generate any variables, it is jus	t a representat	ion of how they are
With: configuration.				SuggestedRemedy			
-	nse Status C			Replace: It is generated	ted by PCS Data Transmission E	nabling state d	iagram as specified in
ACCEPT.				With: The tx_enable_	mii parameter generated by PCS	Transmit Ena	ble as specified in
Use commentors suggested rem	nedy.			Response ACCEPT.	Response Status C		
7 96.2. SC /ienckowski, Natalie	P 32 General Motors	L 32	# 485	C/ 96.3. SC	P 40	L 44	# 488
<i>comment Type</i> E <i>Comn</i> unneeded comma	nent Status A			Wienckowski, Natalie Comment Type E	General Motors Comment Status A		
uggestedRemedy Replace: DISABLE, or ENABLE	1				s section use the variable name, i 't generate any variables, it is jus		ion of how they are
With: DISABLE or ENABLE Response Respon ACCEPT.	nse Status C			SuggestedRemedy	ted by PCS Data Transmission E	nabling state d	iagram as specified ir
Use commentors suggested rem	nedy.				ii parameter generated by PCS T	ransmit Enabl	e as specified in
/ 96.3. SC /ienckowski, Natalie	P 40 General Motors	L 93	# 486	Response ACCEPT.	Response Status C		
·	nent Status A			Cl 96.3. SC Wienckowski, Natalie	P 41 General Motors	L 35	# 489
uggestedRemedy	ftor: ty onable million	d tv. orror mii		Comment Type E editing marks left in de	Comment Status A		
Delete : with strikethrough in it a				SuggestedRemedy			
ACCEPT.	nse Status C			remove are with strike NOTE: strikethrough	ethrough in: 6 consecutive symbo does not copy	ols areis genera	ated
				Response	Response Status C		
				ACCEPT.			
				See repsonse to com	ment 285.		

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/ 96.3. SC P 41 L 37 # 490 Vienckowski, Natalie General Motors	C/ 96.3.SCP 48L 8# 492Wienckowski, NatalieGeneral Motors
Comment Type E Comment Status A Extraneous explanation of how 100BASE-T1 is different.	Comment Type E Comment Status A Incorrect formatting
SuggestedRemedy Replace: Unlike 100BASE-TX or 1000BASE-T where symbols shall be exclusively assigned for TX_ER assertion occurrence, 100BASE-T1 only has one special symbol pair (0, 0) that is not used by Idle or Data symbols. Therefore, rather than insert ERROR symbols at the place TX_ER is asserted, in 100BASE-T1, at the end of data packet, tx_error is examined to determine whether ESD3 or ERR_ESD3 shall be transmitted following two consecutive special pairs (0, 0) for ESD1 and ESD2, as shown in Figure 96-6. With: 100BASE-T1 has one special symbol pair (0, 0) that is not used by Idle or Data symbols. At the end of the data packet, tx_error is examined to determine whether ESD3 or ERR_ESD3 shall be transmitted following two consecutive special pairs (0, 0) for ESD1 and ESD2, as shown in Figure 96-6. Response Response Status C ACCEPT IN PRINCIPLE. See response to comment #291.	SuggestedRemedy The "n" in "TAn" and "TBn" in "Generation of (TAn, TBn) when TXMODE = SEND_I" should be subscripts. Response Response Status C ACCEPT. Use commentors suggested remedy. Additionally italicize "TAn" and "TBn". C/ 96.3. SC Table 96-1 P 48 L 15 Wienckowski, Natalie General Motors Comment Type E Comment Type E Comment Status A Editing marks left in document SuggestedRemedy Remove "dle" with strikethrough and underline beneath "Idle" in the title.
C/ 96.3. SC P 41 L 51 # 491 Vienckowski, Natalie General Motors	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A poor wording SuggestedRemedy	See response to comment 35. C/ 96.3. SC P 53 L 25 # 494 Wienckowski, Natalie General Motors
Replace: If TXMODE has the value SEND_N, PCS Transmit generates symbol An, at each symbol period, that are representing data,	Comment Type E Comment Status A Editing marks left in document
With: If TXMODE has the value SEND_N, PCS Transmit generates symbol An at each symbol period representing data,	SuggestedRemedy
Response Response Status C ACCEPT.	Remove underline below "." <i>Response Response Status</i> C ACCEPT.
	Use commentors suggested remedy.

Cl 96.3. SC Wienckowski, Natalie	P 54 General Motors	L 14	# 495	C/ 96.5. SC Wienckowski, Natalie	P 62 General Motors	L 35	# 498
Comment Type E poor grammar	Comment Status A			Comment Type E poor grammar	Comment Status A		
SuggestedRemedy Replace: When PMA	Receive indicates normal operati	ons and sets		SuggestedRemedy Replace: In a real app	lication radiofrequency		
With: When PMA Re	ceive indicates normal operation a	and sets		With: In a real applica	tion, radio frequency		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
Cl 96.4. SC Wienckowski, Natalie	P 57 General Motors	L 20	# 496	<i>Cl</i> 96.5. SC Wienckowski, Natalie	P 62 General Motors	L 45	# 499
Comment Type E poor wording	Comment Status A			Comment Type E Incorrect heading leve	Comment Status R		
	ansmit clock TX_TCLK in 66.666		cy which	SuggestedRemedy Section 96.5.1.3 shoul Electrical Specificatior	d be 96.5.2 as this is not part of t	the EMC requ	irement, but is another
With: using the transi Response ACCEPT.	mit clock TX_TCLK of 66.666 MH Response Status C	z which		Response REJECT.	Response Status C		
Cl 96.4. SC Wienckowski, Natalie	P 62 General Motors	L 8	# 497	See response to comr	nent 78. This section is propsed t	to be deleted.	
Comment Type E formatting error	Comment Status A						
SuggestedRemedy Indent: if config = SL state diagrams.	AVE. This timer is used jointly in t	he PHY Cont	rol and Link Monitor				
Response ACCEPT.	Response Status C						
See response to com	ment 616.						

%/ 96.5. SC P 63 L 21 # 500 /ienckowski, Natalie General Motors	C/ 96.5.SCP 71L 14# 502Wienckowski, NatalieGeneral Motors
comment Type E Comment Status A poor grammar	Comment Type E Comment Status A editing marks left in document
<i>uggestedRemedy</i> Replace: For example, a PHY transmitting 40 symbols (600 ns) will be long enough for a 500 ns droop measurements.	SuggestedRemedy Remove "of" with strikethrough and underline below "to" in the following: This specification is provided to verify the DUT's tolerance ofto alien crosstalk noise."
With: For example, a PHY transmitting 40 symbols (600 ns) will be long enough for a 500 ns droop measurement.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT. C	See response to comment 258.
Change "For example, a PHY transmitting 40 symbols (600 ns) will be long enough for a 500 ns	C/ 96.5.SC Figure 96-23P 71L# 503Wienckowski, NatalieGeneral Motors
droop measurements." to "For example, a PHY with test mode 1 enabled and N = 40 symbols (symbol period of 600 ns) would transmit a pattern sufficiently long enough for a 500 ns droop measurement."	Comment Type E Comment Status A Incorrect symbol/name for "ohms" SuggestedRemedy
	Replace "O" on all resistors with ohm symbol or "Ohms".
Cl 96.5. SC P 66 L 33 # 501 /ienckowski, Natalie General Motors	Response Response Status C ACCEPT.
Comment Type E Comment Status A	
Remove editing marks left in document	See response to comment 38.
uggestedRemedy	C/ 96.5. SC P71 L 32 # 504
Remove underlines from both commas in the following: The peak distortion values, measured at a minimum of 10 equally-spaced phases of a single symbol period, shall be	Wienckowski, Natalie General Motors
less than 15 mV. esponse Response Status C	Comment Type E Comment Status A Don't want reference to BroadR-Reach and missing close parenthesis.
ACCEPT.	SuggestedRemedy
Will remove underline from text in 96.5.4.2.	Replace: NOISE SOURCE (BroadR-Reach 100Mbps COMPLIANT TRANSMITTER SENDING IDLES NONSYNCHRONOUS TO THE BroadR-Reach TRANSMITTER UNDER TEST
	With: NOISE SOURCE (100BASE-T1 100Mbps COMPLIANT TRANSMITTER SENDING IDLES NONSYNCHRONOUS TO THE 100BASE-T1 TRANSMITTER UNDER TEST)
	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

Comment ID 504

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Cl 96.6 SC Wienckowski, Natalie	P 71 General Motors	L 41	# 505	Cl 96.7. SC Wienckowski, Natalie	P 74 General Motors	L 25	# 508
Comment Type E extraneous comma	Comment Status A			Comment Type E Extraneous date in docun	Comment Status A nent, updates with each docu	ment release	
Management Interface sp	es use of the management fu			Response ACCEPT IN PRINCIPLE.	aced)6 November 2014 shal Response Status C	l be	
Response ACCEPT.	Response Status C			See response to commen			" 500
Use commentors suggest	ted remedy			Cl 96.8. SC Wienckowski, Natalie	P 75 General Motors	L 4	# 509
Cl 96.7. SC a Wienckowski, Natalie Comment Type E Editing marks left in docu SuggestedRemedy	P 74 General Motors <i>Comment Status</i> A ment	L 5	# 506	Comment Type E Editing marks left in docu SuggestedRemedy Remove underline from (F Response ACCEPT.			
_	ethrough in: the same cable <i>Response Status</i> C	pair, is cause	d	Use commentors suggest	ed remedy.		
ACCEPT. Use commentors suggest				Cl 1.4.3 SC Wienckowski, Natalie	P 18 General Motors	L 8	# 510
Cl 96.7. SC a Wienckowski, Natalie Comment Type E Editing marks left in docu	P 74 General Motors Comment Status A	L 9	# 507	Comment Type T incorrect baud rate SuggestedRemedy In: for 100BASE-T1, the s	Comment Status A		
SuggestedRemedy				Add "bar" on top of the las			
Remove space with strike	ethrough (or random -) at end	of line.		Response ACCEPT.	Response Status C		
Response ACCEPT IN PRINCIPLE.	Response Status C			ACCEPT.			
The "-" is intentional as it the value was not intentio	is part of "-140 dB/Hz", howe	ever the line b	reak in the middle of				
Will correct this.							
TYPE: TR/technical required	ER/editorial required GR/ge	neral required	t T/technical E/editorial G/g	general	Comment	ID 510	Page 113 of 144

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/ 1.4.x SC Wienckowski, Natalie	P 18 General Motors	L 22 s	# 511	<i>CI</i> 00 Wienckow	SC 0 vski, Natalie	P Gen	<i>L</i> eral Motors	# 514
Comment Type T incorrect clock frequer SuggestedRemedy In: during one 33.333	MHz			Comment Many pg 18 pg 29 pg 29 pg 29 pg 29	<i>Type</i> E different names , line 18: one pa , line 89: single , line 20: one pa , line 25: one pa	Comment Status used for the cabling. ir cable twisted pair line conn ir unshielded twisted ir UTP cable	A ection	
Add "bar" on top of the Response ACCEPT. Use commentors sugg	Response Status C			pg 29 pg 30 pg 30 pg 30 pg 30 pg 30	, line 5: one pai , line 9: balance , line 11: one pa , line 17: _each	twisted pair channel r twisted pair mediun ed one pair twisted pa ir of balanced cabling wire pair_	ir cable medium	
With: ternary pairs na Response	P 17 General Motors Comment Status A s named as ESD1-3 as defined med ESD1-3 as defined in 96.3 Response Status C	in 96.3.2.3.	# <u>512</u>	pg 70 pg 72 pg 72 pg 72 pg 72 pg 72 pg 72 pg 72 pg 73 pg 73 pg 74 pg 74	, line 43: one pa , line 22: one-pa , line 22: one pa , line 24: one pa , line 26: 1-pair , line 51: one pa , line 53: 1-pair , line 1: 1-pair L	ir 15m UTP balanced balanced copper cabi ir of balanced cabling UTP cables JTP cable ed 1-pair UTP cabling nannel able	l copper cabling ing J	
ACCEPT IN PRINCIPI See response to comr					onsistent name		all instances defined	above with: "single
C/ 1.4.3 SC Wienckowski, Natalie	P 17 General Motors	L 43 s	# 513	balan Response		as was defined in th Response Status		
Comment Type E poor wording	Comment Status A			ACCE	EPT IN PRINCIP	LE.		
SuggestedRemedy Replace: SSD consist 3 as	ts of the code-group of 3 conse	cutive ternary p	airs named as SSD1-	Strike		cription, "Single balar bling" definition in 1.4	.x. Additionally strike a	issociated keyword in
With: SSD consists of Response ACCEPT IN PRINCIPI	f the code-group of 3 consecuti <i>Response Status</i> C LE.	ve ternary pairs	named SSD1-3 as					
See response to comr	nent #24.							
	ed ER/editorial required GR/g spatched A/accepted R/reject ID				U/unsatisfied	Z/withdrawn	Comment ID 514	Page 114 of 144 2/12/2015 8:15:

29 AM

C/ 1.4.xSCP 18L 22# 515Wienckowski, NatalieGeneral Motors	C/ 45.2. SC P 26 L 42 # 518 Wienckowski, Natalie General Motors 518
Comment Type E Comment Status A poor wording	Comment Type E Comment Status A manual config run-on sentence
SuggestedRemedy Replace: 3 bits (3B) wide of data that is transmitted	SuggestedRemedy Replace: indicate MASTER-SLAVE config value bit 1.2100.14 is used
With: 3 bit (3B) wide data that is transmitted	With: indicate MASTER-SLAVE config value. Bit 1.2100.14 is used
Response Response Status C ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE.
Use commentors suggested remedy.	See the response to comment #403
C/ 1.4.xSCP 18L 30# 516Wienckowski, NatalieGeneral Motors	C/ 96.1.SCP 29L 19# 519Wienckowski, NatalieGeneral Motors
Comment Type E Comment Status A extraneous period	Comment Type E Comment Status A poor wording
SuggestedRemedy Replace: auto-negotiation. process	SuggestedRemedy Replace: The followings are
With: auto-negotiation process	With: The following are
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.
Cl 45.2. SC Table 45-4 P 24 L 34 # 517	Use commentors suggested remedy.
Vienckowski, Natalie General Motors	Cl 96.5. SC P 69 L 5 # 520
Comment Type E Comment Status A Table 45-4	Wienckowski, Natalie General Motors
Should 100 Mb/s be added to this table? The x1xx = Reserved row was removed, but a new row was not added.	Comment Type T Comment Status A uncommon word usage
SuggestedRemedy Add row:	SuggestedRemedy Replace: to 3 discrete differential voltage levels [-1, 0, +1] volts orrespondingly
0100 = 100 Mb/s	With: to 3 discrete differential voltage levels [-1, 0, +1] volts, respectively
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
See response to comment #67.	See response to comment 411.
100 Mb/s is listed in Table 45-4 however that line was not included in the "changes" to Table 45-4 shown in the draft. Table 45-4 will be deleted. There is no need to add.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w SORT ORDER: Comment ID	generalComment ID520Page 115 of 144itten C/closed U/unsatisfied Z/withdrawn2/12/20158:15:

SORT ORDER: Comment ID

<i>Cl</i> 00 <i>SC</i> 0 Anslow, Pete	<i>P</i> Ciena	L	# 521	C/ 01 SC 1.4 Anslow, Pete	P 2 Ciena	L 18	# 524
Comment Type E The header for the draf contains "Task Force" to SuggestedRemedy	Comment Status A ft says "IEEE 802.3bw Task I twice.	Force 100BASE-	T1 Task Force" which	including ":") is in b	Comment Status A d throughout subclause 1.4 is t old font. e this format, but many do not.	-	defined (up to and
Change to "IEEE 802.3 Response	Bbw 100BASE-T1 Task Force Response Status C	e" throughout the	draft		of the terms being defined.		
ACCEPT. Use commentors sugg	ested remedy.			Response ACCEPT. Use commentors si	Response Status C		
C/ 99 SC Anslow, Pete	<i>P</i> Ciena	L	# 522	C/ 00 SC 0 Anslow, Pete	P Ciena	L	# 525
Page iii of the frontmat	tor contains "Special charact	ore can be incort	and the File Hallers	Comment Type E	Comment Status A		
Character palette using This should not be part SuggestedRemedy Remove the text and ta Response	g the Hex number." and Table t of the draft frontmatter		eo via fiie, Utilities,	There are many ins locations within the tag "External" in Fra For example Page Clause 23, Clause are all broken links.	tances of cross-references in th draft. These should be text sho meMaker).	own in Forest Gree	
Character palette using This should not be part SuggestedRemedy	g the Hex number." and Table t of the draft frontmatter able.		# <u>523</u>	There are many ins locations within the tag "External" in Fra For example Page Clause 23, Clause are all broken links. SuggestedRemedy Go through the enti text shown in Fores that are in the draft	tances of cross-references in th draft. These should be text sho meMaker). 2, line 25:	own in Forest Gree se 40 es to locations that External" in Framel ss-references (clicl	en (with a character are not in the draft Maker). For locations
Character palette using This should not be part SuggestedRemedy Remove the text and ta Response ACCEPT. Cl 01 SC 1.3 Anslow, Pete Comment Type E The editing instructions underline and strikeout	g the Hex number." and Table t of the draft frontmatter able. <i>Response Status</i> C <i>P</i> 2 <i>Ciena</i> <i>Comment Status</i> A s are shown on page 1 of the t font is "Change".	e 00-1. <i>L</i> 7 draft. The only	# <u>523</u>	There are many ins locations within the tag "External" in Fra For example Page Clause 23, Clause are all broken links. SuggestedRemedy Go through the entit text shown in Fores that are in the draft PDF version should Response ACCEPT.	tances of cross-references in th draft. These should be text sho imeMaker). 2, line 25: 24, Clause 32, Clause 36, Clause the draft making cross-reference t Green (with a character tag "E make all occurences valid cross move the view to that location) <i>Response Status</i> C	own in Forest Gree se 40 es to locations that External" in Framel ss-references (clicl	en (with a character are not in the draft Maker). For locations
Character palette using This should not be part SuggestedRemedy Remove the text and ta Response ACCEPT. Cl 01 SC 1.3 Anslow, Pete Comment Type E The editing instructions underline and strikeout	g the Hex number." and Table t of the draft frontmatter able. <i>Response Status</i> C <i>P</i> 2 Ciena <i>Comment Status</i> A s are shown on page 1 of the t font is "Change". here is "Insert", so the text b	e 00-1. <i>L</i> 7 draft. The only	# <u>523</u>	There are many ins locations within the tag "External" in Fra For example Page Clause 23, Clause are all broken links. SuggestedRemedy Go through the entit text shown in Fores that are in the draft PDF version should Response	tances of cross-references in th draft. These should be text sho imeMaker). 2, line 25: 24, Clause 32, Clause 36, Clause the draft making cross-reference t Green (with a character tag "E make all occurences valid cross move the view to that location) <i>Response Status</i> C	own in Forest Gree se 40 es to locations that External" in Framel ss-references (clicl	en (with a character are not in the draft Maker). For locations

ow, Pete Ciena	
,	Anslow, Pete Ciena
ment Type E Comment Status A	Comment Type E Comment Status A
n the second to last sentence: For 100BASE-T1, A set of ternary PAM3 symbols (out of 9 possible combinations), when representing data, conveys 3 bits, as defined in 96.3." 'A" should be "a" and the IEEE Style Manual 12.2 c) says "In general text, isolated numbers less than 10 should be spelled out.", so "out of 9" should be "out of nine" and "3 bits" should be "three bits".	The IEEE Style Manual 12.2 c) says "In general text, isolated numbers less than 10 sho be spelled out." In the added sentence in 1.4.183 "of 3" should be "of three" The IEEE Style Manual 12.2 e) says "Dashes should never be used because they can misconstrued as subtraction signs." In the added sentence in 1.4.183 "named as ESD1-3" should be "named as ESD1 to
n the last sentence, " Clause 36, and Clause 40.)" has been changed to : " Clause 36, Clause 40, and Clause 96.)". The insertion of "and Clause 96" is correctly shown in	ESD3"
underline font but the removal of the "and " before "Clause 40" is not.	SuggestedRemedy
gestedRemedy	In the added sentence in 1.4.183 change "3" to "three" and change "ESD1-3" to "ESD1 ESD3".
n the second to last sentence: Change "A" to "a", "9" to "nine" and "3 to three".	Response Response Status C
Shange A to a, 9 to fille and 5 to tillee.	ACCEPT IN PRINCIPLE.
n the last sentence, show "and " in strikethrough font before "Clause 40"	Circular comments in 140, and the managed above for this tout them.
nonse Response Status C	Similar comment in 140, see the proposed change for this text there.
ACCEPT IN PRINCIPLE.	C/ 01 SC 1.4.183 P3 L 2 # 529
See response to comment 152, 37, and 194.	Anslow, Pete Ciena
	– Comment Type E Comment Status A
1 SC 1.4.157 P 2 L 36 # 527 ow, Pete Ciena ment Type E Comment Status A	In the last sentence, " Clause 32, and Clause 40.)" has been changed to : " Clause Clause 40, and Clause 96.)". The insertion of ", and Clause 96" is not shown in underli font and the removal of the "and " before "Clause 40" is not shown in strikethrough font
n the base standard, 1.4.157, 1.4.163, 1.4.183, 1.4.381, 1.4.385 all end with a reference in	Similar issue for 1.4.313 and 1.4.314
prackets that starts "(See IEEE Std 802.3, Clause" This is because these definitions are copied out of the 802.3 standard into other	SuggestedRemedy
documents.	In the last sentence of 1.4.183, show "and " in strikethrough font before "Clause 40" and
However, in the P802.3bw draft, the text "IEEE Std 802.3, " is missing.	show ", and Clause 96" in underline font. In the last sentence of 1.4.313, show "and " in strikethrough font before "Clause 82" and
gestedRemedy	remove the first "and" in "and and Clause 96."
Put the missing "IEEE Std 802.3, " back in these definitions (in normal font).	In the last sentence of 1.4.314, show "and " in strikethrough font before "Clauses 82 to
oonse Response Status C	Response Response Status C
ACCEPT.	ACCEPT IN PRINCIPLE.
Jse commentors suggested remedy.	See response in comment 194.

C/ 01 SC 1.4.315 P 3 Anslow, Pete Ciena	L 23	# 530	<i>Cl</i> 01 Anslow, F	SC 1.4.382	P 4 Ciena	L 8	# 532
Comment Type E Comment Status A The last sentence of 1.4.315 has been change added in several places) without any changen Since the published version of this text does n keep to this style.	d from the published arks.		Comment After Suggeste	* <i>Type</i> E "125 MBd", "; " I	Comment Status A has been added, but is not sho	wn in underline	font.
SuggestedRemedy Show as: "(For example, See IEEE Std 802.3, Clauses 62, 63, 66, and 83, and 96.)" with the first "and underline font.				esponse to com			
Response Response Status (ACCEPT IN PRINCIPLE.	;		C/ 01 Anslow, F	SC 1.4.x	<i>Р</i> 4 Сіепа	L 16	# 533
Similar to comment 194, additionally use common Clause # after the initial use of the word "Claurer" Claurer C/ 01 SC 1.4.377 P3			"1.4.x	rst 1.4.x is:	Comment Status A n uses Paragraph Tag D3,Defin be deleted.	nitions. (See Cla	ause 96.)" which is
Anslow, Pete Ciena <i>Comment Type</i> E <i>Comment Status</i> / The IEEE Style Manual 12.2 c) says "In gener be spelled out." In the added sentence in 1.4.377 "of 3" should	al text, isolated numb		Suggeste Delet "1.4.x Response ACCE	e: name: definition	n uses Paragraph Tag D3,Defi <i>Response Status</i> C	nitions. (See Cla	ause 96.)"
The IEEE Style Manual 12.2 e) says "Dashes misconstrued as subtraction signs." In the added sentence in 1.4.183 "named as S SSD3" SuggestedRemedy			Cl 00 Anslow, F Comment The t	Туре Е	P Ciena Comment Status A fferent from the established sty	L /le in 802.3 whic	# <u>534</u>
In the added sentence in 1.4.377 change "3" t SSD3".	Ū.	"SSD1-3" to "SSD1 to	"64B/ Suggeste	66B" dRemedy	/3B" throughout the draft		
Response Response Status C ACCEPT IN PRINCIPLE. Similar comment in 139, see the proposed cha		.	Response ACCE	9	Response Status C		

	Ciena Comment Status A				oto		Ciena		
The definition for 1.	Comment Status A			Anslow, Pe		_			
per other comments	4.x 4B3B could be written more per another comment and includ	,	o IEEE Std 802.3 as	[abbre	ext: R expar viation:		Comment Status A ion agraph tag AcrList,ac]" e 802.3 template and should	he removed	
SuggestedRemedy				Suggested				be removed.	
converting MII data transmitted during of "1.4.x 4B/3B: In the when converting 4-	100BASE-T1 PHY, the data enc (4B-4 bits) with 25 MHz clock to one 33.333 MHz clock period. (S 100BASE-T1 PHY, the data enc bit (4B) MII data with 25 MHz clo d 802.3, 96.3.2.2.2)"	3 bits (3B) wide ee 96.3.2.2.2)" to coding technique	of data that is o: used by the PHY	Delete "ABBR [abbre <i>Response</i>	e: R expar eviations	ded vers	agraph tag AcrList,ac]" <i>Response Status</i> C		
ACCEPT.	Response Status C			Similar	r comm	ient in 13	6, see the proposed change f	or this text there	
				C/ 01	SC	1.5	P 5	L 1	# 538
C/ 01 SC 1.4.x	P 4 Ciena	L 25	# 536	Anslow, Pe			Ciena		
,				Comment	•••	Е	Comment Status A		
	Comment Status A "1D-PAM3", "(See Clause 96.3.2 cause these definitions are copie			for the	editors	. It starts	nd 6 of the draft is from the 80 s with: to be included in the publishe		·
SuggestedRemedy				Suggested	Remed	ly			
,	se 96.3.2)" to "(See IEEE Std 80	2.3, Clause 96.3	.2)"	Delete	the tex	kt on page	es 5 and 6 of the draft.		
Response ACCEPT.	Response Status C			Response ACCE			Response Status C		
Similar comment in	194, see the proposed change t	or this text there		Similar	r comm	ent in 11	8, see the proposed change f	or this text there	

Anslow, Pete Ciena	L 3	# 539	C/ 45 SC - Anslow, Pete	45.2.1	<i>P</i> 10 Ciena	L 9	# 541
Comment Type E Comment Status A The text immediately below the Clause 30 title is should not have been included in the draft.	helpful text from th	e 802.3 template and	Comment Type The editing in	struction for Tabl	nment Status A		CL45/2 d then inserting 4 new
Same issue for Clause 45 on Page 10 SuggestedRemedy Delete: "[Insert the headings and changes to Clause 30 H table or equation include the cross-reference mai (as has been done for the Clause 30 heading about Delete equivalent text in Clause 45. Response Response Status C ACCEPT.	ker from Clause 30		"Change the i above the cha Show the cha "1.18092103 t underlined. Show the four	diting instruction dentified reserve inged row as follonged row as: hrough 1.32767 inserted rows in es in the Subclau	d row in Table 45-3 a ows (unchanged row Reserved" with 1809 normal font.	s not shown):") in strikethrough f	
Similar comment in 114, see the proposed chang	e for this text there		ACCEPT.				
C/ 30 SC 30.3.2.1.2 P 8 Anslow, Pete Ciena	L 11	# 540	Use comment	ors suggested re	emedy.		
Comment Type E Comment Status A The editing instructions for 30.3.2.1.2, 30.3.2.1.3 use this change instruction, at least some of the be present. An "Insert" editing instruction is more appropriate SuggestedRemedy	existing text of the		Anslow, Pete Comment Type	ames shown in ٦ 5-3 has: control	P 10 Ciena nment Status A Fable 45-3 do not ma	L 17	# <u>542</u> ames used later in 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

Comment ID 542

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<i>CI</i> 45 Anslow, Pe	SC 45.2.1.7.4	4 <i>P</i> 11 Ciena	L 6	# 543	<i>Cl</i> 45 Anslow, Pet	SC 45.2.1. e	2001.1	<i>P</i> 12 Ciena	L 40	# 545	
Comment	Туре Е	Comment Status A		Table 45-9	Comment T	vpe E	Comm	ent Status A		L5	
insertio	on should be ma	"Insert the following row int de. iption location" column sho		2	designa	tion in brack	ets.			gs) end with the bit as much as possible.	
Same	issues for 45.2.1	75			SuggestedRemedy						
Suggested					•	,		he heading for 45.2	2.1.2001.1 if retai	ned.	
	e the editing inst	ruction to:			0	the title of 4 SE-T1 MAST		config value (1.210	00.14)"		
"Insert	the following row	w above the row for 10GBA	SE-KR in Table 4	5-9 (unchanged rows	Response			se Status C	,		
not sho	own):"					T IN PRINCI	,				
	the following row	he editing instruction to: w above the row for 10GBA	SE-KR in Table 4	5-10 (unchanged rows		the title of 4 SE-T1 MAST		to: config value (1.210	00.14)"		
In both	cases make the	e entry in the "Description lo	cation" column a	cross-reference.	C/ 45	SC 45.2.1.	2002	P 13	L 10	# 546	
					Anslow, Pet	е		Ciena			
Response		Response Status C			Comment T	vpe E	Comm	ent Status A		Table 45-2002	
ACCEI	PT IN PRINCIPL	E.				•	es bit 1.2101	.2, but ignores all	of the other bits in	n the register. Same	
See re	sponse to comm	ent #401			issue in	Table 45-20	03.	-		-	
					Also, fo	otnotes a and	d b should be	e a single footnote	:		
CI 45	SC 45.2.1.10		L 3	# 544		Read only, LL					
Anslow, Pe	ete	Ciena			SuggestedF	Remedy					
Comment	Туре Е	Comment Status A		Table 45-13					5-2003 as "Reserv	/ed for future use".	
	liting instruction ed row for bit 1.1	says: "Insert the following r	ows into Table 45	-13 in place of the		otnotes a an Read only, LL					
reserve		1.11.			Response	cou only, EE	0	se Status C			
		for just 1.11.11, and second	lly "Insert in pla	ice of" isn't an insert,		T IN PRINCI					
	eplace.				AGOEI						
Suggested					See res	ponse to con	nment #568.				
"Chang change Show t "1.11.1	ge the reserved i ed row as follows the changed row I5:112 Reserved	a simple replacement, chan row in Table 45-13 and inse s (unchanged rows not sho as: I Ignore on read RO" with th existing row underneath as	ert a new row imm vn):" e last "1" in strike	ediately below the		5-2002 has b ntors sugges		Modifications to T	Гаble 45-2003 ha	ve been made, per the	
Response		Response Status C									
ACCEI	PT.										
Use co	ommentors sugge	ested remedy.									
COMMENT		spatched A/accepted R/re		t T/technical E/editorial G/g NSE STATUS: O/open W/wri		J/unsatisfied	Z/withdrawr		nent ID 546	Page 121 of 144 2/12/2015 8:15:	

2/12/2015 8:15:30 AM

45 SC 45.2.1.2002.2 P 13 L 23 # 547 nslow, Pete Ciena	C/ 96 SC 96.1.1 P 15 L 24 # 549 Anslow, Pete Ciena
omment Type E Comment Status A	2002 Comment Type E Comment Status A
Registers are defined using level 4 headings, bits are defined using level 5 as here. The implication of this heading numbering is that register 1.2102 is part of register 2010.	In "Provide a Bit Error Ratio of less than or equal to 1e-10 over" The IEEE style is not to capitalise Bit Error Ratio and to use the form 10-10 with the "-1 as a superscript and the "-" as an en dash (Ctrl-g Shft-p)
uggestedRemedy	SuggestedRemedy
Change the heading number to 45.2.1.2003 For some reason the next level 5 heading is already 45.2.1.2003.1 which it shouldn't be it should not have forced numbering.	
esponse Response Status C ACCEPT.	"Provide a bit error ratio of less than or equal to 10-10 over" with the "-10" as a superscript and the "-" as an en dash (Ctrl-q Shft-p)
	Response Response Status C
96 SC 96 P15 L1 # 548	ACCEPT.
nslow, Pete Ciena	C/ 96 SC 96.1.2 P 15 L 44 # 550
Clause 96 contains some characters in underline font and others in strikethrough font.	Anslow, Pete Ciena
This is not appropriate for a new clause. Example are at:	Comment Type E Comment Status R
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc.	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b).
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response Response Status C
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. <i>aggestedRemedy</i> Search for these attributes in FrameMaker and remove them throughout Clause 96.	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b).
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. <i>uggestedRemedy</i> Search for these attributes in FrameMaker and remove them throughout Clause 96. <i>esponse</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE.	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response Response Status C
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. PagestedRemedy Search for these attributes in FrameMaker and remove them throughout Clause 96. Page 26, lines 40 and 42 etc. Page 40 Page	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response RESPONSE REJECT. This text shows the uniqueness of 100BASE-T1, and it is essential for differentiating for
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. <i>aggestedRemedy</i> Search for these attributes in FrameMaker and remove them throughout Clause 96. <i>Response</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE. The draft will be scrubbed of erroneous underlines and strikethroughs, including the	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response Response Status C REJECT. This text shows the uniqueness of 100BASE-T1, and it is essential for differentiating from other clauses. C/ 00 SC 0 P L # 551
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. <i>uggestedRemedy</i> Search for these attributes in FrameMaker and remove them throughout Clause 96. <i>esponse</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE. The draft will be scrubbed of erroneous underlines and strikethroughs, including the	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response Response Status C REJECT. This text shows the uniqueness of 100BASE-T1, and it is essential for differentiating fro other clauses. C/ 00 SC 0 P L # 551 Anslow, Pete Ciena Comment Type E Comment Status A
Example are at: Page 18, line 35 Page 18, line 37 (looks like a space in strikethrough font) Page 24, line 34 Page 26, lines 40 and 42 etc. <i>uggestedRemedy</i> Search for these attributes in FrameMaker and remove them throughout Clause 96. <i>esponse</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE. The draft will be scrubbed of erroneous underlines and strikethroughs, including the	The text that starts: "The specification features that enable achieving the objectives are:" is not appropriate for an Ethernet specification document. (It is more appropriate to a contribution justifying the choices to be made). SuggestedRemedy Remove the quoted text and items a) and b). Response Response Status C REJECT. This text shows the uniqueness of 100BASE-T1, and it is essential for differentiating from other clauses. C/ 00 SC 0 P L # 551 Anslow, Pete Ciena Comment Type E Comment Status A twisted pair should be hyphenated as "twisted-pair" SuggestedRemedy

C/ 96 SC 96.1.2.3	P 16	L 17	# 552	C/ 00 SC	C 0	P 17	L 1	# 554	
nslow, Pete	Ciena			Anslow, Pete		Ciena			
Comment Type E	Comment Status A			Comment Type	Е	Comment Status A			
In "PMA transmits o characters (or underline	over _each wire pair" there ap ned spaces).	opear to be spur	ious underscore	The draft contains several figures that are bitmaps rather than FrameMaker drawings. is not desirable because: Bitmaps tend to make the resulting pdf larger than it needs to be.					
Also in "e) Robust del	imeters for Start-of_stream"			The text in t	the figure	is not searchable			
<i>SuggestedRemedy</i> Remove them.				Any change be re-drawr		ure needed in a revision of the	standard mean	s that the figure has to	
esponse ACCEPT IN PRINCIP	Response Status C			This applies 96B.1.1	s to Figure	s: 96-17, 96-18, 96-19, 96-21,	the Figure in 96	B.1, the Figure in	
				SuggestedRem	edy				
See response to com	ment #27 and #163.			Re-draw the	ese figures	s in FrameMaker (without using	l colour).		
00 SC 0	P17	L 1	# 553	Response		Response Status C			
nslow, Pete	Ciena			ACCEPT.					
omment Type E	Comment Status A			See respon	se to com	ment #563.			
The draft contains mu Since the IEEE style of	Itiple figures that use colour.			C/ 96 SC	C 96	P 24	L 32	# 555	
	not be required for proper inte	rpretation of the	information." the	Anslow, Pete		Ciena	202	" 000	
colour should not be r	needed and it is inconsistent w	ith the rest of the	e 802.3 standard.	Comment Type	Е	Comment Status A			
There is also coloured	d text in 96.5.4.2 which is also	inconsistent with	n the rest of the 802.3			is not consistent in its use of f	onts.		
standard.				SuggestedRem	edv				
uggestedRemedy				00		t in Clause 96 to use Paragrap	h Tag T Text w	ith 10 pt Times New	
Remove the colour fro				Roman font					
Remove the colour fro				Response		Response Status C			
esponse	Response Status C			ACCEPT.					
ACCEPT.					ontore euro	gested remedy.			
Figures are to be redr removed from Matlab	awn for several reasons, color code.	will be removed	I. Color will also be	USE COMME	smors sug	gesteu remeuy.			

CI 96 SC 96.3	P 24	L 37	# 556	CI 96 S	C 96.7	P 58	L 24	# 559
Anslow, Pete	Ciena			Anslow, Pete		Ciena		
Comment Type E	Comment Status A			Comment Type		Comment Status A		
SuggestedRemedy change the "-" in "(+1,	locuments use an en dash , 0, -1)" to an en dash (Ctrl-q S nus signs in the draft to be an e			followed by So, "15m L	a space ar JTP" should eaking space	de, "The value of a quantit nd the appropriate unit nan be "15 m UTP" where the ce (Ctrl space)	ne or symbol."	-
Response ACCEPT. Use 'en dash' to repre	Response Status C	o draft for other ir	nstances.	Change "1 non-breaki In Figure 9	5m UTP" to ng space (C 6-24, chang	"15 m UTP" where the space). (trl space). Je "15m" to "15 m" and d) change "15m" to "1		umber and the unit is a
C/96 SC 96	P 34	L 18	# 557	Response		Response Status C		
Anslow, Pete	Ciena			ACCEPT II	N PRINCIPI	_E.		
Comment Type E	Comment Status A			See respor	nse to comn	nent #92.		
21	96 do not use the correct forma	ət						
				Remove U	IP, see res	ponse to comment #514.		
SuggestedRemedy Change the format of	all tables to be the "IEEE" forn ie default font (9 pt Times New	nat available in th	ne 802.3 template		C 96.7.1	ponse to comment #514. P 58 Ciena	L 52	# 560
SuggestedRemedy Change the format of including the use of th	all tables to be the "IEEE" forn	nat available in th	ne 802.3 template	C/ 96 S	C 96.7.1	P 58	L 52	# 560
SuggestedRemedy Change the format of	all tables to be the "IEEE" forn he default font (9 pt Times New	nat available in th	ne 802.3 template	Cl 96 S Anslow, Pete Comment Type The IEEE S	C 96.7.1 E Style Manua	P 58 Ciena <i>Comment Status</i> A al 12.2 e) says "Dashes sh		
SuggestedRemedy Change the format of including the use of th Response ACCEPT. Cl 96 SC 96.5.4.2	all tables to be the "IEEE" form he default font (9 pt Times New <i>Response Status</i> C	nat available in th	ne 802.3 template # <u>558</u>	Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in	C 96.7.1 E Style Manua ed as subtra the range o	P 58 Ciena Comment Status A	ould never be used	because they can be
SuggestedRemedy Change the format of including the use of th Response ACCEPT. Cl 96 SC 96.5.4.2 Anslow, Pete	all tables to be the "IEEE" form the default font (9 pt Times New <i>Response Status</i> C <i>P</i> 53 Ciena	nat available in tr v Roman)		Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in	C 96.7.1 E Style Manua ed as subtri the range o son to have	P 58 Ciena <i>Comment Status</i> A al 12.2 e) says "Dashes sh action signs." of [90 ohm - 110 ohm] (non	ould never be used	because they can be
SuggestedRemedy Change the format of including the use of th Response ACCEPT. Cl 96 SC 96.5.4.2 Anslow, Pete Comment Type E 96.5.4.2 includes som	all tables to be the "IEEE" form he default font (9 pt Times New <i>Response Status</i> C <i>P</i> 53	nat available in th Roman) <i>L</i> 1 e expected to be	# <u>558</u>	Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in a good rea SuggestedRen Change: "in the rang	C 96.7.1 E E Style Manua ed as subtra the range c son to have nedy ge of [90 oh	P 58 Ciena Comment Status A al 12.2 e) says "Dashes sh action signs." of [90 ohm - 110 ohm] (nom the square brackets. m - 110 ohm] (nominal 100	ould never be used ninal 100 ohm)" the) ohm)" to:	because they can be
SuggestedRemedy Change the format of including the use of the Response ACCEPT. C/ 96 SC 96.5.4.2 Anslow, Pete Comment Type E 96.5.4.2 includes som then it needs a copyrig SuggestedRemedy	all tables to be the "IEEE" form the default font (9 pt Times New <i>Response Status</i> C <i>P</i> 53 Ciena <i>Comment Status</i> A the MATLAB code. If people and ght release as per the example	nat available in th Roman) <i>L</i> 1 e expected to be	# <u>558</u>	Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in a good rea SuggestedRen Change: "in the rang	C 96.7.1 E E Style Manua ed as subtra the range c son to have nedy ge of [90 oh	P 58 Ciena Comment Status A al 12.2 e) says "Dashes sh action signs." of [90 ohm - 110 ohm] (non the square brackets. m - 110 ohm] (nominal 100 n to 110 ohm (nominal 100	ould never be used ninal 100 ohm)" the) ohm)" to:	because they can be
SuggestedRemedy Change the format of including the use of the Response ACCEPT. Cl 96 SC 96.5.4.2 Anslow, Pete Comment Type E 96.5.4.2 includes som then it needs a copyright SuggestedRemedy Add a copyright release for	all tables to be the "IEEE" form the default font (9 pt Times New <i>Response Status</i> C <i>P</i> 53 Ciena <i>Comment Status</i> A the MATLAB code. If people and ght release as per the example	L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	# 558 able to use this code, ely reproduce the	Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in a good rea SuggestedRen Change: "in the rang "in the rang Response ACCEPT.	C 96.7.1 E E Style Manua ed as subtri- the range of son to have nedy ge of [90 ohr ge of 90 ohr	P 58 Ciena Comment Status A al 12.2 e) says "Dashes sh action signs." of [90 ohm - 110 ohm] (non the square brackets. m - 110 ohm] (nominal 100 n to 110 ohm (nominal 100 Response Status C	ould never be used ninal 100 ohm)" the) ohm)" to:	because they can be
SuggestedRemedy Change the format of including the use of the Response ACCEPT. Cl 96 SC 96.5.4.2 Anslow, Pete Comment Type E 96.5.4.2 includes som then it needs a copyright SuggestedRemedy Add a copyright release for	all tables to be the "IEEE" form the default font (9 pt Times New <i>Response Status</i> C <i>P</i> 53 Ciena <i>Comment Status</i> A the MATLAB code. If people and ght release as per the example se as per 40.6.1.2.4: MATLAB code: Users of this s	L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	# 558 able to use this code, ely reproduce the	Cl 96 S Anslow, Pete Comment Type The IEEE S misconstru Also, in "in a good rea SuggestedRen Change: "in the rang "in the rang Response ACCEPT.	C 96.7.1 E E Style Manua ed as subtri- the range of son to have nedy ge of [90 ohr ge of 90 ohr	P 58 Ciena Comment Status A al 12.2 e) says "Dashes sh action signs." of [90 ohm - 110 ohm] (non the square brackets. m - 110 ohm] (nominal 100 n to 110 ohm (nominal 100	ould never be used ninal 100 ohm)" the) ohm)" to:	because they can be

2/ 96 SC 96 Inslow, Pete	5.10.1 P 62 Ciena	L 8	# 561	<i>Cl</i> 01 Anslow, P		1.4.x	P 4 Ciena	L 17	# 562
21	E Comment Status A lows "is claimed to conform to Cla	use 96, " should	exactly match the		lause 1.	ER 4 starts w oses of th	Comment Status A ith: is document, the following t	erms and definitic	ons apply."
proforma tables	ause title in the top row of the table for " in the heading of 96.10.4						ng defines a term "Automoti should not be defined here.	ve Cabling" that is	s not used in the draf
	be "Physical Coding Sublayer (PCS aseband medium, type 100BASE-T1		um Attachment (PMA)	Suggeste Delete		-	arting: "1.4.x Automotive Ca	bling:"	
Also, in the table	e in 96.10.2.2 "802.3xx-201x" shoul	d be "802.3bw-20	1x"	Response	Э		Response Status W		
uggestedRemedy				ACCE	EPT IN I	PRINCIPL	.Е.		
	ge: use 96, Physical Medium Attachme use 96, Physical Coding Sublayer (I		odium Attachmont	See r	esponse	e to comn	nent #514.		
(PMA)"	use 90, Filysical Couling Sublayer (i	FCS), FTIysical M		C/ 96	SC	96	P 29	L 20	# 563
"IEEE Std 802.3 "IEEE Std 802.3	f the table in 96.10.2.2, change: 3xx-201x, Clause 96, Physical Medi 3bw-201x, Clause 96, Physical Codi 1A)" and in the third row change "{	ing Sublayer (PC	S), Physical Medium		<i>t Type</i> EEE Sty		Ciena <i>Comment Status</i> A I says that the font size in F ause 96 have font sizes tha		
"PICS proforma	of 96.10.4, change: tables for Physical Medium Attachr tables for Physical Coding Sublaye				raw figu s partic	res with fo	ont sizes smaller than 8 pt. ded for Figures 96-6, and 96	3-9	
esponse	Response Status C			ACCE			Response Status W		
ACCEPT.	rs suggested remedy.					e to be red	drawn and follow the IEEE S	tyle Manual rules	

CI 30	SC 30.5.1.1.11	P 8	L 36	# 564	C/ 45	SC	45.2.1.1	P 10	L 25	# 565
Anslow, Pete	e	Ciena			Anslow, Pe	ete		Ciena		
Comment Ty	ype T Con	nment Status A			Comment	Туре	т	Comment Status A		CL45/22
aBIPErr aMedia/	.11 in either IEEE Std orCount not aMediaAv Available is 30.5.1.1.4.	ailable			from th The ec	he in-for diting in:	rce versio	b be any useful change mad n is that the entry "x 1 x x = Change Table 45-4 as follo y.	Reserved" is mis	sing.
	e editing instruction sa of 30.5.1.1.11 as follow			AVIOUR DEFINED AS	Suggestea	Remed	ly			
"If the M equivale 10BRO/ value of 10BRO/	IAU is a 10M b/s link o ent to the link test fail s AD36 MAU, this indica this attribute persists AD36, and 10BASEFP	r fiber type (FOIRL, tate/low light function tes whether or not lo between packets for	10BASE-T, 10BAS n. For an AUI, 10B opback is detected	ASE2, 10BASE5, or d on the DI circuit. The	"Chan Show	ge the 1 all chan	1.0.5:2 rov iges from	red to these speed selection v of Table 45-4 as follows:" the existing row with striket a to: "R/W = Read/Write, SC	nrough and under	rline font.
which is	all about 10 Mb/s, so	is inappropriate.			Response			Response Status C		
The thir	d paragraph is about 1	00 Mb/s, so this see	ms a better place	to add the text.	ACCE	PT IN F	PRINCIPLI	Ε.		
SuggestedR	Remedy				See re	esponse	to comm	ent 67.		
	the heading number to		diaAvailable		C/ 45	22	45.2.1.6	<i>P</i> 10	L 44	# 566
	the editing instruction the third paragraph in		NED AS section of	30.5.1.1.4 as follows:	Anslow, Pe		45.2.1.0	Ciena	L 44	# 500
Show th	e existing third paragra igure 96-6" a cross-re	aph text in normal fo			Comment		т	Comment Status A		Table 45-1
Response	-	oonse Status C						nade to Table 45-7 re-uses	bit combinations	that have already been
ACCEP	T IN PRINCIPLE.							802.3bk-2013: SE-PRX-U4		
Domody	/ 1: See response to c	ammont 61					10GBASE			
Remedy	71: See response to co 2: See response to co 3: See response to co	omment 305					10/1GBAS 10GBASE	SE-PRX-D4 -PR-D4		
					shown	i, not jus	st one row	Change Table 45-7 as follo /. loes not show the existing to		
					Suggestea	Remed	ly			
					respec Either	ct to that show th	t.	ts 1.7.5:0 in the revision pro		Ū
					Response	-	aronng rac	Response Status C		
							RINCIPLI			
					See re	esponse	to comm	ent #247.		

CI 45 SC 45.2	.1.2001	P 12	L 33	# 567	C/ 45	SC 45.2.1.20	02.1	P 13	L 20	# 568
nslow, Pete		Ciena			Anslow, P	ete		Ciena		
comment Type T		ent Status R		Table 45-2001	Comment			t Status A		Table 45-2002
0 = Reserved fo doesn't do anythir	TER-SLAVE m future use" ig. As defined,	anual configuration the only allowed va	alue is 1.		Firstly to the	, it is unclear wh value chosen for	at the "operat [·] 100BASE-T	ing mode" mear 1?		et to 100BASE-T1." i if bits 1.7.5:0 are set ng it?
45.2.1.2001.1 is on not say what hap			happens if this b	t is set to 1, but does	Suggestee	dRemedy				
If the intention is the by simply marking	o use this bit fo the bit as Rese	en this can be done nentations will return	bit 1.1	is definition to be .2. Either say w former case, als	hat this is or r	emove the regis	ster.	nan being identical to		
"0" for this bit, so to the new behavi		ned to the current b	ehaviour in the fu	iture and "1" assigned	Response ACCE	PT IN PRINCIPI	,	Status C		
Same issue for bi anyway.	ts 1.2100.3:0 00	000 is the only valic	I response and th	nat is the default	Subcl	ause 45.2.1.2002	2 has been de	eleted.		
Also, "0 0 0 x = R "0 0 0 1 = Reserv			0 0 1 x = Reserv	ed for future use" and	C/ 45 Anslow, P	SC 45.2.1.20 ete	01.2	P 12 Ciena	L 48	# 569
Also, footnotes a "RO = Read only,		e a single footnote: /rite"					a PICS item to		ubclause containi	2002 ing "shall". This
SuggestedRemedy					Suggestee	dRemedy				
		its 1.2100.15 and 1		ude more than one	Add P	ICS items corres	ponding to th	e requirements	of 45.2.1.2001.2	and 45.2.1.2002.1
Fix the other issue		Reserved for future ne first option.	use"		Response		Response	Status C		
Response	Respon	se Status C			ACCE	PT.				
REJECT.										
automatic. Accep it different from al	ting the propos previous imple or the possibility		meaning of this t ter-Slave manua	it, which would make configuration control						
				to the bottom four bits nation is reserved for						
YPE: TR/technical re	quired ER/edit	orial required GR/g	general required	T/technical E/editorial G/g SE STATUS: O/open W/wr	general			Comm	ent ID 569	Page 127 of 144

C/01 SC 1.4	4.x	P 4	L 29	# 570	C/ 96	SC 96.1.2.2	P 16	L 17	# 572
nslow, Pete		Ciena			Wu, Peter		Marvell		
omment Type	TR Comme	nt Status A		reopen	Comment T	ype E	Comment Status A		
	ng "1.4.x PHY-Initia				typo				
	ans, it is a justificat the time taken which				Suggested	Remedy			
guide.							each wire pair_ " to "over ea		. u
SuggestedRemedy						change "Start-o	of_stream delimiter" to "Start-	-of-Stream delimit	ter"
	r "PHY-Initialization at it means and add			ent text with a ate heading in Clause	Response ACCEF	T IN PRINCIPI	Response Status C _E.		
Response	Respons	e Status C			See rep	sonse to com	nent #27 and #163.		
ACCEPT IN PR	INCIPLE.	-			C/ 96	SC 96.5.2	P 49	L 9	# 573
Change tout to r					Wu, Peter		Marvell		
configuration of	Mode: FORCE mod MASTER-SLAVE a	assignment to ac	chieve link acquisi		Comment 7 The for	<i>ype</i> E t size is too big	Comment Status A for the table.		
"1.4.x FORCE N configuration of	Mode: FORCE mod	assignment to ac	chieve link acquisi	tion between two		t size is too big			
"1.4.x FORCE N configuration of 100BASE-T1 lin	Mode: FORCE mod MASTER-SLAVE ank partners. (See IE	assignment to ac EEE Std 802.3, 96 P 63	chieve link acquisi		The for Suggested	t size is too big Remedy		sed.	
"1.4.x FORCE N configuration of 100BASE-T1 lin	Mode: FORCE mod MASTER-SLAVE ank partners. (See IE	assignment to ac EEE Std 802.3, 90	chieve link acquisi 6.4.4.)"	tion between two	The for Suggested	t size is too big Remedy	for the table.	sed.	
"1.4.x FORCE N configuration of 100BASE-T1 lin C/ 96 SC 96 Anslow, Pete Comment Type	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen	assignment to ac EEE Std 802.3, 96 P 63	chieve link acquisi 6.4.4.)"	tion between two	The for <i>Suggestedf</i> fix font	t size is too big Remedy size, also chec	for the table. k correct font and style are u	sed.	
"1.4.x FORCE N configuration of 100BASE-T1 lin C/ 96 SC 96 Anslow, Pete Comment Type The PICS profor	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen rrma is empty	assignment to ac EE Std 802.3, 90 P 63 Ciena	chieve link acquisi 6.4.4.)"	tion between two	The for Suggestedf fix font Response ACCEF	t size is too big Remedy size, also chec	for the table. k correct font and style are un <i>Response Status</i> C		# 574
"1.4.x FORCE N configuration of 100BASE-T1 lin C/ 96 SC 96 Inslow, Pete Comment Type The PICS profor SuggestedRemedy	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen rrma is empty	assignment to ac EE Std 802.3, 90 P 63 Ciena	chieve link acquisi 6.4.4.)"	tion between two	The for Suggested fix font Response	t size is too big Remedy size, also chec	for the table. k correct font and style are u	sed. L 13	# 574
"1.4.x FORCE N configuration of 100BASE-T1 lin 2/ 96 SC 96 unslow, Pete Comment Type The PICS profo SuggestedRemedy Fill out the PICS	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen orma is empty S proforma	assignment to ac EE Std 802.3, 96 P 63 Ciena <i>nt Status</i> A	chieve link acquisi 6.4.4.)"	tion between two	The for Suggestedf fix font Response ACCEF C/ 96 Wu, Peter	t size is too big Remedy size, also chec PT. SC 96.5.2	for the table. k correct font and style are un <i>Response Status</i> C <i>P</i> 50		# 574
"1.4.x FORCE N configuration of 100BASE-T1 lin C/ 96 SC 96 Anslow, Pete Comment Type The PICS profo SuggestedRemedy Fill out the PICS Response	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen orma is empty S proforma	assignment to ac EE Std 802.3, 90 P 63 Ciena	chieve link acquisi 6.4.4.)"	tion between two	The for Suggestedf fix font Response ACCEF C/ 96 Wu, Peter Comment 7	t size is too big Remedy size, also chec PT. SC 96.5.2 Type E	y for the table. k correct font and style are un <i>Response Status</i> C <i>P</i> 50 Marvell	L 13	
"1.4.x FORCE N configuration of 100BASE-T1 lin 96 SC 96 nslow, Pete Comment Type The PICS profo SuggestedRemedy Fill out the PICS Response ACCEPT.	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen orma is empty S proforma Response	assignment to ac EE Std 802.3, 90 P 63 Ciena nt Status A	chieve link acquisi 6.4.4.)" <i>L</i> 6	tion between two	The for Suggestedf fix font Response ACCEF C/ 96 Wu, Peter Comment 7	rt size is too big Remedy size, also chec PT. SC 96.5.2 Type E ong font size ar	y for the table. k correct font and style are un <i>Response Status</i> C <i>P</i> 50 Marvell <i>Comment Status</i> A	L 13	
"1.4.x FORCE N configuration of 100BASE-T1 lin 2/ 96 SC 96 Anslow, Pete Comment Type The PICS profo SuggestedRemedy Fill out the PICS Response ACCEPT.	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen orma is empty S proforma	assignment to ac EE Std 802.3, 90 P 63 Ciena nt Status A	chieve link acquisi 6.4.4.)" <i>L</i> 6	tion between two	The for Suggestedf fix font Response ACCEF C/ 96 Wu, Peter Comment 7 The wr Suggestedf	rt size is too big Remedy size, also chec PT. SC 96.5.2 Sype E ong font size ar Remedy	y for the table. k correct font and style are un <i>Response Status</i> C <i>P</i> 50 Marvell <i>Comment Status</i> A	L 13	
"1.4.x FORCE N configuration of 100BASE-T1 lin C/ 96 SC 96 Anslow, Pete Comment Type The PICS profo SuggestedRemedy Fill out the PICS Response ACCEPT.	Mode: FORCE mod MASTER-SLAVE a hk partners. (See IE 5.10 TR Commen orma is empty S proforma Response	assignment to ac EE Std 802.3, 90 P 63 Ciena nt Status A	chieve link acquisi 6.4.4.)" <i>L</i> 6	tion between two	The for Suggestedf fix font Response ACCEF C/ 96 Wu, Peter Comment 7 The wr Suggestedf	rt size is too big Remedy size, also chec PT. SC 96.5.2 Sype E ong font size ar Remedy	y for the table. k correct font and style are un <i>Response Status</i> C <i>P</i> 50 Marvell <i>Comment Status</i> A nd paragraph spacing is used	L 13	

C/ 96 SC 96.5.2 Wu, Peter	Р 50 Marvell	L 13	# 575	C/ 96 SC 96.5.1 Wu, Peter	P 48 Marvell	L 25	# 578
Comment Type E The font size is too b SuggestedRemedy	Comment Status A			Comment Type ER sections 96.5.1 EMC Emission 1500hm	Comment Status D Requirements, 96.5.1.1 Immu conducted emission test while including the MDI not the PM.	e the PMA is rela	
fix font size, also che	ck correct font and style are us	ed.		SuggestedRemedy			
Response	Response Status C			These sections shoul	d be placed in 96.8 MDI Speci	ification or as a n	ew stand alone section
ACCEPT.				Proposed Response	Response Status Z		
C/ 96 SC 96.1.2.2	2 <i>P</i> 16	L 11	# 576	REJECT.			
Nu, Peter	Marvell			This comment was W	ITHDRAWN by the commenter	er.	
<i>Comment Type</i> ER 66.666 is missing bai	Comment Status A			C/ 96 SC 96.7.2	P 60 Marvell	L 18	# 579
SuggestedRemedy fix this instance and o	other instances.			Comment Type ER	Comment Status A		- should be in section
Response	Response Status C			96.7.1 Cabling system			
ACCEPT.				SuggestedRemedy			
See response to com	iment #510.			Create new subsection	ns for PSANEXT and PSAAC	RF in 96.7.1.	
C/ 96 SC 96.4.4 Nu, Peter	P 45 Marvell	L 5	# 577	Response ACCEPT IN PRINCIF	Response Status C		
Comment Type ER	Comment Status A			Move "96.7.2 c)" as "	96.7.1.5". And refer to "96.7.1.	5" in "96.7.2 c)"	
remove BroadR-Read	ch references			Move "96.7.2 d)" as "	96.7.1.6". And refer to "96.7.1.	.6" in "96.7.2 d)"	
SuggestedRemedy delete multiple instan	ces of BroadR-Reach in Claus	e 96		C/ 96A SC 96A Wu, Peter	P 65 Marvell	L 1	# 580
Response ACCEPT.	Response Status C			Comment Type ER	Comment Status A no new information beyond w	hat is provided in	Clause 45
Change all instances	of "BroadR-Reach" to "100BA	SE-T1".		SuggestedRemedy Delete this section.			
				Response ACCEPT IN PRINCIF	Response Status C PLE.		
				This will be resolved v	when Clause 45 changes are o	completed.	

C/ 96B SC 96B Wu, Peter	P 67 Marvell	L 1	# 581	<i>Cl</i> 45 Wu, Peter	SC 45.2.1.20	001.1	P 12 Marvell	L 41	# 583	
Comment Type ER This section describe	Comment Status R es two test modes but has no n	ormative requirem	nents to support them.		me and descrip		t Status A his is a configu	ration bit, but the	<i>Table 45-2001</i> R/W column indicates	
SuggestedRemedy				•	ad only).					
Suggest adding PCS	S loopback requirement in PCS	section, enabled	by 3.0.14.	Suggested	Remeay RO to R/W.					
Response	Response Status C			•		Deenemee	Statura O			
REJECT.				Response	PT IN PRINCIPI	•	Status C			
These tests are not	required for normal operation m	ode. See respons	e to comment #365.							
C/ 96 SC 96.9	P 61 Marvell	L 17	# 582	Change	e bit 1.2100.15	to R/W.				
Wu, Peter				Change	Э					
Comment Type T The delay constraint	Comment Status A t requires more precision on the	measurement.			able MASTER- served for future		al configuratior	1		
SuggestedRemedy										
	ference point for all MDI measu ponding to the reference code-l		•	to						
Response	Response Status C			"Value always 1, writes ignored."						
ACCEPT IN PRINCI	,			C/ 96	SC 96.4.7.2		P 48	L 7	# 584	
_				Wu, Peter			Marvell			
See response to cor	mment #93.			Comment 7	Type TR	Commen	t Status A			
				line 32	But maxwait_t	imer is still de		imer shall expire	itialization, page 4, 1406 ms +- 18 ms if	
				Suggested	Remedy		-			
					ner should expir er than 100ms) i	•		ms) if config = MA	ASTER or TBD	
				Response		Response	Status C			
				ACCEF	PT IN PRINCIPI	LE.				
				The tim	ner must expire	> 100ms to a	llow for the max	kimum startup tim	e.	
				Change "The tir SLAVE	ner shall expire	e 1406 ms +- 1	8 ms if config =	MASTER or 656	6 ms +-9 ms if config =	
				to						
				"The tir	mer shall expire	after 200 ms	+- 2 ms."			
	uired ER/editorial required GR/						Comm	ent ID 584	Page 130 of 144	

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

2/12/2015 8:15:30 AM

2/ 96		96.6	P 57	L 41	# 585	C/ 96	SC 9	96.8.2	P 60	L 42	# 587
Vu, Peter	•		Marvell			Wu, Peter			Marvell		
Comment	Туре	TR	Comment Status A			Comment 7	Гуре	TR	Comment Status D		
This s	ection i	incorrectly	references Clause 22 as the	MDIO type.		this sec	ction al	so lacks	any specification for MDI fault	tolerance.	
Suggestee	dReme	dy				Suggestedl	Remed	'y			
			in 22.2.4" to "specified in Clar			Sugges	st starti	ng with 1	1000BASE-T spec.		
	1 add a 02100)		e to 45.2.1.2001 100BASE-T1	PMA/PMD cont	roi register (Register	Proposed F	Respon	se	Response Status Z		
delete		ns 96.6.3	MDC (management data cloc	k) and 96.6.4 MI	DIO (management	REJEC	т.				
Response	•		Response Status C			This co	mment	t was WI	THDRAWN by the commenter		
ACCE	EPT IN	PRINCIPI	_E.								
Chang		1 makaa	ice of the management function	one provided by	the MIL Management	<i>CI</i> 96 Wu, Peter	SC 9	96.8.2	P 60 Marvell	L 42	# 588
		cified in 2	use of the management functi 2.2.4,	ons provided by	the Mill Management	Comment 7	rvpe	TR	Comment Status A		
and th	ne PHY	-Initializat	ion which is described in the f	ollowing section	"	this sec	ction la	cks a sp	ec on ANEXT from adjacent co	onnectors.	
to						Suggestedl	Remed	V			
								•	SANEXT spec with 6dB adde	d margin.	
			use of the management functi nterface specified in Clause 45		the Management Data	Response			Response Status U		
			ion which is described in the f		"	ACCEF	PT.				
Remo	ove 96.6	6.3 and 96	5.6.4.			Change					
96 (J	SC	96.8.2	P 60	L 42	# 586				ated with a specified one pair specified in Table 96.7.1."	UTP cable con	nector shall meet the
/u, Peter			Marvell			to					
omment	Туре	TR	Comment Status D			10					
			specs on common mode outp dance balance.	out voltage and c	ommon-mode-to-				ated with a specified one pair s specified in 96.7.1, except fo		
Suggestee	dReme	dy									
Sugge	est star	ting with 1	1000BASE-T spec.								
roposed	Respo	nse	Response Status Z								
REJE	CT.										
This o	ommor	nt was \//	THDRAWN by the commente	r							
1115 0	Jonner	11 Was VVI									

Cl 96 SC 96.3.2. Dawe, Piers	4.8 P 48 Mellanox	L 50	# 589	C/ 01 SC 1.4.x Dawe, Piers	P 4 Mellanox	L 18	# 592
Comment Type E	Comment Status R			Comment Type ER	Comment Status A		
Need to do equations	s per style guide.			••	abling" is not used anywher	e else in this draft	. There are many
SuggestedRemedy				kinds of cabling in cars; cabling is not viable.	trying half-heartedly to hijac	k two regular word	ds for just one kind of
Number the equation				SuggestedRemedy			
Explain what's in the "where Scr is	equation:			Delete the definition.			
n is				Response	Response Status W		
and [caret] denotes .				ACCEPT IN PRINCIPLE	•		
Response	Response Status C						
REJECT.				See response to comme	ent #514.		
	s sufficiently described in the tex ons are contained within the sub		. Numbering is not	<i>Cl</i> 96 <i>SC</i> 96.5.4.5 Dawe, Piers	P 56 Mellanox	L 37	# 593
C/ 96 SC 96.5.2	P 48	L 50	# 590	Comment Type T	Comment Status A		
Dawe, Piers	Mellanox			Don't use a table if there	e is only one entry. The entr	y in the Mode colu	umn isn't right anyway.
Comment Type E	Comment Status A			SuggestedRemedy			
Test Modes				Complete the sentence:			
SuggestedRemedy				PHY in MASTER mod Delete the table.	e shall be within the range 6	6.666' MHz ± 100	ppm.
Test modes				Also in 96.5.5.2.			
Correct other rogue of	capitals, e.g. Test Fixtures.			Response	Response Status C		
Response	Response Status C			ACCEPT IN PRINCIPLE			
ACCEPT IN PRINCI	PLE.			See response to comme	opt 442		
To conform to accep	otable IEEE header grammar rul	es, only the first	word of a header is		fill 442.		
capitalized (unless n	ecessary). Scrub draft for "rogu	e capitals".		C/ 96 SC 96.7.1.4	P 59	L 46	# 594
C/ 99 SC 99	Pii	L	# 591	Dawe, Piers	Mellanox		
Dawe, Piers	Mellanox			Comment Type T	Comment Status A		
Comment Type E	Comment Status A				plained, or used anywhere end Sdc12 aren't used anywh		aft
	e Cable" is not used anywhere	else in this draft.		SuggestedRemedy			
SuggestedRemedy Delete.				Remove or spell out TC Maybe Sdc11, Sdc22, S	L and TCTL. dc21 and Sdc12 should app	pear in the equation	n?
Response	Response Status C			Response	Response Status C		
ACCEPT IN PRINCI	PLE.			ACCEPT IN PRINCIPLE	Ξ.		
See response to con	nment #514.			TCL, TCTL, Sdc11, Sdc meaning of each abbrev	22, Sdc21, and Sdc12 need iation.	l to have definition	s describing the
	ired ER/editorial required GR/					ent ID 594	Page 132 of 144

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

2/12/2015 8:15:30 AM

	P 48	L 37	# 595	C/ 96 SC 96.5.1.1 P 48 L 42 # 596
Dawe, Piers	Mellanox			Dawe, Piers Mellanox
Comment Type TR C	omment Status A			Comment Type TR Comment Status A
This says "The Direct Powe used to measure" but 802 interface under test, not to the comply with the criterion it w	r Injection (DPI) test meth .3 is not a test spec. Any he test itself. There is no	"shall" must be a requirement to d	applied to the o the test, only to	This says "The 1500hm test method according to IEC61967-4 shall be used to measure" but 802.3 is not a test spec. Any "shall" must be applied to the interface under test, not to the test itself. There is no requirement to do the test, only to comply with the criterion it would measure, if carried out. Also, what constitutes a pass?
SuggestedRemedy				SuggestedRemedy
This should say something I The sensitivity of the PMA's e.g. be more than x dBm, or to the Direct Power Injection	receiver to radiofrequent comply with Class X in the	he test method] if		This should say something like: The emission of the PMA transmitter to its electrical environment shall [some criterion, e.g. be less than x dBm, or comply with Class X in the test method] if measured according to the 1 ohm/150 ohms direct coupling method of IEC 61967-4.
Note no "DUT". We don't sp them, not just the PMA. Is a				Note no "DUT". We don't specify devices, we specify interfaces, with everything behind them, not just the PMA. Is an IC spec suitable for specifying an equipment anyway?
Response Re	esponse Status W			Response Response Status W
ACCEPT IN PRINCIPLE.				ACCEPT IN PRINCIPLE.
Change "The Direct Power Injection measure the sensitivity of th				Change "The 150Ohm test method according to IEC61967-4 shall be used to measure the emission of the DUT's PMA transmitter to its electrical environment."
to				to
"The sensitivity of the PMA's according to the Direct Pow limits agreed between custo	er Injection (DPI) method	cy CM RF noise of IEC 62132-4,	shall be tested and comply with test	"The emission of the PMA transmitter to its electrical environment shall be tested according to the 1500hm direct coupling method of IEC61967-4, and comply with test limits agreed between customer and supplier."
				C/ 96 SC 96.5.2 P 49 L 63 # 597
				Dawe, Piers Mellanox
				Comment Type TR Comment Status A
				This says "These modes shall be enabled by setting a 3-bit control register." What register is this? Management is optional, and the way of doing management is also optional. So this can't be "shall".
				SuggestedRemedy
				These modes may be selected by setting bits x to y of [some PMA/PMD control register (Register n.m.n; see 45.a.b.c)
				Maybe 100BASE-T1 PMA/PMD control register?
				Response Response Status W
				ACCEPT IN PRINCIPLE.
				See Comment #94
TYPE: TR/technical required EF COMMENT STATUS: D/dispatc SORT ORDER: Comment ID				Ø/generalComment ID597Page 133 of 144written C/closed U/unsatisfied Z/withdrawn2/12/2015 8:15:3

96 SC 96.5.3 P 50 L 19 # 598 awe, Piers Mellanox omment Type TR Comment Status R This says "The following fixtures, or their equivalents shall be used for measuring" But 802.3 is not a test spec. Any "shall" must be applied to the interface under test, not to the test itself. There is no requirement to do the test, only to comply with the criterion it would measure, if carried out. uggestedRemedy Change "shall be used" to "are used". (The shalls go in the text for each test, which refers to the relevant test fixture.)	Cl 96 SC 96.6.2 P 58 L 6 # 600 Dawe, Piers Mellanox Comment Type TR Comment Status A While this tells us what ought to happen (master meets slave) we need to cover the other cases. SuggestedRemedy Explain what happens if master meets master or slave meets slave. Response Response Status
This says "The following fixtures, or their equivalents shall be used for measuring" But 802.3 is not a test spec. Any "shall" must be applied to the interface under test, not to the test itself. There is no requirement to do the test, only to comply with the criterion it would measure, if carried out. <i>IggestedRemedy</i> Change "shall be used" to "are used". (The shalls go in the text for each test, which refers to the relevant test fixture.)	While this tells us what ought to happen (master meets slave) we need to cover the other cases. SuggestedRemedy Explain what happens if master meets master or slave meets slave. Response Response Status
esponse Response Status W	ACCEPT IN PRINCIPLE. See response to comment #284.
REJECT. For example, "shall be used" in the context of 1000BASE-T test fixtures is the exact language used in 40.6.1.1.3.	C/ 96 SC 96.5.4 P 52 L 1 # 601 Dawe, Piers Mellanox
96 SC 96.5.3 P 50 L 20 # 599 awe, Piers Mellanox Mellanox omment Type TR Comment Status R This says "The tolerance of resistors shall be +/- 0.1%." But 802.3 is not a test spec. Tolerancing a load is the test implementer's problem - he must look after his tolerances according to e.g. the accuracy or cost that he needs. Compare e.g. 85.8.3.5 Test fixture - no tolerances. We have been over this in multiple projects. And see another comment on this section. urgested Remedy	Comment Type TR Comment Status R This says "Where a load is not specified, the transmitter shall meet the requirements of this section with a 100 ohm (the value can vary within +/-1% range) resistive differential load connected to each transmitter output." But 802.3 is not a test spec. Tolerancing a load is the test implementer's problem - he must look after his tolerances according to e.g. the accuracy or cost that he needs, and writing it this way means that at least conceptually, an implementation must pass with 99 ohm and with 101 ohm - twice as many tests, not necessary. SuggestedRemedy Delete "(the value can vary within +/-1% range)". If they are 1%-critical, tweak the limits for
<pre>uggestedRemedy Delete "The tolerance of resistors shall be +/- 0.1%."</pre>	e.g. droop. Response Response Status W
esponse Response Status W	REJECT.
REJECT.	See response to comment #599.
Tolerances are specified to ensure repeatable results.	

D/96 SC 96.4.7.2 P48 L7 # 602	C/ 96 SC Figure 96-15—PHY Co P 45 L # 604
Dai, Shaoan Marvell	Carlson, Steven High Speed Design.co
Comment Type TR Comment Status A	Comment Type E Comment Status A
The requirement for link up time is 100ms as defined in 1.4.x PHY initialization, page 4, line 32, But maxwait_timer is still defined as "The timer shall expire 1406 ms +- 18 ms	
config = MASTER or 656 ms +-9 ms if config = SLAVE SuggestedRemedy	SuggestedRemedy
	Replace text with DISABLE 1000BASE-T1 TRANSMITTER
The timer should expire TBD ms (smaller than 100ms) if config = MASTER or TBD (smaller than 100ms) if config =SLAVE.	Response Response Status C
Response Response Status W	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Change "BroadR-Reach TRANSMITTER"
See response top comment #584.	to
X 00 SC 0 P L # 603	"100BASE-T1 TRANSMITTER"
obayashi, Shigeru TE Connectivity	C/ 96 SC 96.5.5.3 Alien Crosstal P 57 L 3234 # 605
Comment Type E Comment Status R	Carlson, Steven High Speed Design.co
Clause: Intellectual Property in the PAR Subclause: 6.1.a Page: 2	Comment Type E Comment Status A Typo in Figure 96-23—Alien Crosstalk Noise Rejection Test Setup text
An apostrophe is attached on the top of the explanation.	NOISE SOURCE (BroadR-Reach 100Mbps COMPLIANT
SuggestedRemedy If it is unnecessary, it should be removed.	TRANSMITTER SENDING IDLES NONSYNCHRONOUS TO THE BroadR-Reach TRANSMITTER UNDER TEST
	SuggestedRemedy
Response Response Status C REJECT.	Change to
Could not find.	NOISE SOURCE (100BASE-T1 100Mbps COMPLIANT TRANSMITTER SENDING IDLES NONSYNCHRONOUS TO THE 100BASE-T1 TRANSMITTER UNDER TEST)
	Response Response Status C
	ACCEPT IN PRINCIPLE.
	See response to comment 577.

Cl 96 SC 96.5.5.3 Alien Crosstal P 57 L 2530 # 606	C/ 96 SC 96.7.1 P 59 L 2 # 608
Carlson, Steven High Speed Design.co	Brillhart, Theodore Fluke Networks
Comment Type E Comment Status A	Comment Type T Comment Status A
In Figure 96-23—Alien Crosstalk Noise Rejection Test Setup, resistor values are in red with the symbol "O". This does not conform to Std. 802.3-2012 usage.	If mode conversion loss is considered to be a transmission parameter then it should be included in this sentence. If not, then include it in the previous sentence.
SuggestedRemedy	SuggestedRemedy
Change resistor values to black with Omega symbol for Ohm.	From: The transmission parameters of the link segment include insertion loss, return loss,
Response Response Status C ACCEPT.	and characteristic impedance. To: The transmission parameters of the link segment include insertion loss, return loss, mode conversion loss, and characteristic impedance.
See response to comment 38.	-Or- From: The transmission parameters contained in this specification ensure that a 1-pair UTP cable link segment will provide a reliable medium.
C/ 96 SC 96.7 P 58 L 26 # 607 Brillhart, Theodore Fluke Networks Fluke Networks Fluke Networks Fluke Networks Fluke Networks	To: The transmission and mode conversion parameters contained in this specification ensure that a 1-pair UTP cable link segment will provide a reliable medium.
Comment Type T Comment Status A	Response Response Status C
Clearly the intention of the diagram is to include the end connectors in the link. So change the diagram text to explicitly include them in the description between the link segment boundaries, or remove the reference to the inline connectors; i.e. both inline and end connectors or niether. To be consistant with the subclause introductory text (lines 24 and 25). Also, suggest to bring the link segment boundary markers closer to the link locations that they are intended to contain (i.e. make them longer). SuggestedRemedy	Change: "The transmission parameters of the link segment include insertion loss, return loss, and characteristic impedance." To: "The transmission parameters of the link segment include insertion loss, return loss, mode conversion loss, and characteristic impedance."
Diagram text -	
From: Link segment 15m 1-pair balanced copper cabling with four inline connectors. To: Link segment 15m 1-pair balanced copper cabling with four inline connectors and two	C/ 99 SC P 1 L 20 # 609 Maquire, Valerie Siemon 1
end connectors. -Or-	Comment Type E Comment Status A
From: Link segment 15m 1-pair balanced copper cabling with four inline connectors. To: Link segment 15m 1-pair balanced copper cabling.	Extraneous "." at the end of the amendment title. This error occurs on page 1 and 15 of the .pdf file.
Response Response Status C	SuggestedRemedy
ACCEPT IN PRINCIPLE.	Delete "." at the end of the amendment title.
See response to comment #92. Additionally, make the following changes	Response Response Status C ACCEPT.
Change "Link segment 15m 1-pair balanced copper cabling with four inline connectors."	
To "Link segment up to 15m single balanced twisted-pair cabling with up to four inline connectors and two mating connectors."	Use commentors suggested remedy.
Change "End Connectors" to "Mating Connectors" in figure 96-24, and split mating and end connector to two.	

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/ 45 SC 45.2.1.2001.2 P 12 L 45 # 610 Hidaka, Yasuo Fujitsu Laboratories of	C/ 96 SC 96.1.2.3 P 16 L 23 # 613 Hidaka, Yasuo Fujitsu Laboratories of
Comment Type E Comment Status A 2002 Section title "100BASE-T1 MASTER/SLAVE Operation" is inconsistent with Table 45-2001.	Comment Type E Comment Status A "Start-of_stream delimiter (SSD) End-of-Stream (ESD)" seems odd.
SuggestedRemedy Change the section title as follows: 100BASE-T1 MASTER-SLAVE config value	SuggestedRemedy Change it with "Start-of-Stream (SSD), End-of-Stream (ESD)".
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
See response to comment #545.	See response to comment #163.
Cl 45 SC 45.2.1.2001.2 P 12 L 47 # 611 Hidaka, Yasuo Fujitsu Laboratories of	C/ 96 SC 96.3.3.1.1 P 38 L 45 # 614 Hidaka, Yasuo Fujitsu Laboratories of
Comment Type E Comment Status A 2002 The text is inconsistent with Table 45-2001.	Comment Type E Comment Status A A period (.) is missing.
SuggestedRemedy Replace "manual config bit" with "manual config enable bit".	SuggestedRemedy Add a period(.).
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.
Cl 96 SC 96.1.2.3 P 16 L 17 # 612 Hidaka, Yasuo Fujitsu Laboratories of Fujitsu Laboratories of Comment Type E Comment Status A "over_each wire pair_" looks odd. Status A	Use commentors suggested remedy. Change "Any random three-bit outputs are invalid and disregarded" to "Any random three-bit outputs are invalid and disregarded."
SuggestedRemedy Change it with "over each wire pair."	C/ 96 SC 96.4.2 P 43 L 9 # 615 Hidaka, Yasuo Fujitsu Laboratories of
Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A In Figure 96-13, PMA_UNITDATA_request should be PMA_UNITDATA.request.
See response to comment #514.	SuggestedRemedy Change it with PMA_UNITDATA.request.
	Response Response Status C ACCEPT. C
	Change "PMA_UNITDATA_request" to "PMA_UNITDATA.request"
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G	/general Comment ID 615 Page 137 of 144

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

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C/ 96 SC 96.4.7.2 Hidaka, Yasuo	P 48 L 8 Fujitsu Laboratories of	# 616	C/ 96SC 96.5.2P 49LHidaka, YasuoFujitsu Laboratories of	45 # 619
Comment Type E The indentation is not g	Comment Status A good.		Comment Type E Comment Status A A period should not come to the beginning of a line.	
SuggestedRemedy Fix the indentation.			SuggestedRemedy Move the period to the end of previous line.	
Response ACCEPT.	Response Status C		Response Response Status C ACCEPT.	
Will fix indentation.			"." appears on new line, will be fixed.	
C/ 96 SC 96.5.2 Hidaka, Yasuo	P 49 L 9 Fujitsu Laboratories of	# 617	C/ 96SC 96.5.2P 50LHidaka, YasuoFujitsu Laboratories di	
Comment Type E Top margin of the table	Comment Status A e cells are too small.		Comment Type E Comment Status A Top margin of table cells of Table 96-5 is too small.	
SuggestedRemedy Increase the top margi	n of the table cells of Table 96-4.		SuggestedRemedy Increase the top margin of table cells.	
Response ACCEPT.	Response Status C		Response Response Status C ACCEPT.	
C/ 96 SC 96.5.2 Hidaka, Yasuo	P 49 L 28 Fujitsu Laboratories of	# 618	C/ 96SC 96.5.4.2P 53LHidaka, YasuoFujitsu Laboratories of	49 # 621
Comment Type E Reference to section T	Comment Status R ransmitter Timing Jitter is needed.		Comment Type E Comment Status A Inside of the for loop is not indented.	
SuggestedRemedy Add a reference to the	section.		SuggestedRemedy Add indentation from Page 53 Line 49 to Page 54 Line 9.	
Response REJECT.	Response Status C		Response Response Status C ACCEPT.	
See response to comn	nent #279.		Use commentors suggested remedy.	

C/ 96 SC 96.5.4.4 P55 L 19 # [622] Hidda, Yasuo Fujisu Laboratories of Fujisu Laboratories of Fujisu Laboratories of Comment Type E Comment Status A A An edit result from "of" to "to" is left. SuggestedRemedy Increase the top margin of the table cells of Table 96-6. Response Response Status C A ACCEPT. C1 96 SC 96.5.5 P 56 L 36 # [623] Hidda, Yasuo Fujisu Laboratories of Comment Type E Comment Status A Comment Type E Comment Status A A nedit result from "of" to "to". Response Response Status C ACCEPT. Response Status C Comment Type E Comment Status R Fujisu Laboratories of Comment Type E Comment Status A A grammer error. Add a telerence for the table caption to text. Response Response Status C Response Response Status R Table caption is missing. SuggestedRemedy Lidaka, Yasuo Fujisu Laboratories of Comment Type I Comment Status A Ci 96 SC 96.5.5.2 P 57 L 6								
Top margin of the table cells of Table 96-6 is too small. SuggestedRemedy Increase the top margin of the table cells of Table 96-6. Response Response Status C ACCEPT. Ci 96 SC 96.5.1.5 P.56 L.36 # 623 Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a telerence for the table caption to text. Response Response Status C REJECT. See response to comment 422. Ci 96 SC 96.5.2 P.57 L.6 # 624 Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a reference for the table caption to text. Response Response Status C REJECT. See response to comment Status R Table caption is missing. SuggestedRemedy Add a table caption to text. Response Response Status C REJECT. See response to comment Status R Table caption is missing. SuggestedRemedy Add a table caption to text. Response Response Status C REJECT. See response to comment Status R Table caption is missing. SuggestedRemedy Add a table caption to text. Response Response Status C REJECT. RESPONSE Response Status C RES				# 622				
Increase the top margin of the table cells of Table 96-6. Response Response Status C ACCEPT. Cl 96 SC 96.5.1.5 P 56 L 36 # 623 Fujitsu Laboratories of Comment Status R Table caption is missing. SuggestedRemedy Add a table caption to text. Response Comment 442. Cl 96 SC 96.5.5.2 P 57 L 6 # 624 See response to comment 442. Cl 96 SC 96.5.5.2 P 57 L 6 # 624 Fujitsu Laboratories of Comment Status R Table caption is missing. SuggestedRemedy Add a table caption to is missing. SuggestedRemedy Add a table caption to is missing. SuggestedRemedy Add a table caption to text. Response Response Status C REJECT. REJECT. REJECT. REJECT.			nall.					
ACCEPT. CI 96 SC 96.5.4.5 P 56 L 36 # [623] Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status R Cl 96 SC 96.7.1.3 P 59 L 37 # [626] Table caption is missing. SuggestedRemedy Add a reference for the table caption to text. Add a reference for the table caption to text. Response Response Status C REJECT. See response to comment 442. Cl 96 SC 96.7.2 P 60 L 5 # [627] Cl 96 SC 96.7.2 P 60 L 5 # [627] Suggested/Remedy Add a table caption. Add a table caption is missing. Suggested/Remedy Cl 96 SC 96.7.2 P 60 L 5 # [627] Cl 96 SC 96.7.2 P 60 L 5 # [627] Suggested/Remedy Add a table caption.		rgin of the table cells of Table 9	6-6.					
Hidak, Yasuo Fujitsu Laboratories of Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a table caption. Add a table caption to text. Response Response Status C G G24 Ci 96 SC 96.7.1.3 P 59 L 37 # 626 Comment Type E Comment Status A Agrammer error. SuggestedRemedy Add a table caption to text. Response Status C Remove the first "shall". It is should be "The return loss of the link segment" REJECT. See response to comment 442. Fujitsu Laboratories of C 96 C 96.7.2 P 60 L 5 # 627 Ci 96 SC 96.7.2 P 60 L 5 # 627 Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status A SuggestedRemedy Add a table caption is missing. Add a table caption to text. C 96 L 5 # 627 SuggestedRemedy Add a table caption to text. Response Status C An edit result of removing a comma with strike bar is left. SuggestedReme	•	Response Status C						
Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a table caption. Add a reference for the table caption to text. Response Response Status C REJECT. See response to comment 442. Cl 96 SC 96.7.12 See response to comment 442. P57 Cl 96 SC 96.5.5.2 P 57 L 6 Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status R Table caption is missing. C SuggestedRemedy Response to comment Status R Table caption is missing. Fujitsu Laboratories of Cl 96 SC 96.5.5.2 P 57 L 96 SC 96.7.2 P 60 L 96 SC 96.7.2 P 60 L 96 SC 96.7.2 P 60 L 96 SuggestedRemedy Add a table caption to text. SuggestedRemedy Add a table caption to text. SuggestedRemedy Add a table caption to text. Comment Type E Response Response Status C REJECT. SuggestedRemedy Add a table ca				# 623	· · · · · · · · · · · · · · · · · · ·			
Table caption is missing. SuggestedRemedy Add a table caption. Add a table caption to text. Response Response Status C REJECT. See response to comment 442. Cl 96 SC 96.5.2 P 57 Lidaka, Yasuo Fujitsu Laboratories of Table caption is missing. Comment Type E SuggestedRemedy Add a reference for the table caption to text. REJECT. See response to comment 442. Cl 96 SC 96.5.2 P 57 Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a table caption. Add a reference for the table caption to text. Response Response Status C Response Response Status C Response Response Status C Response Response Status C REJECT. Comment Status A Add a reference for the table caption to text. SuggestedRemedy Add a reference for the table caption to text. C Response Response Status C REJECT. Comment Status A Add a reference for the table caption to text. C	,	-						
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Add a table caption. Add a table caption. Add a reference for the table caption to text. Response REJECT. See response to comment 442. C/ 96 C/ 96 C/ 96 SC 96.5.5.2 P57 L6 # 624 Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Status Response Comment Type E Comment Status Response Add a table caption. Add a reference for the table caption to text. Response Response Status C REJECT. Response Status C Response Status C Response Status C R	SuggestedRemedy							
Response Response Status C Remove the first "shall". REJECT. See response to comment 442. It should be "The return loss of the link segment" C/ 96 SC 96.5.2 P 57 L 6 # 624 Hidaka, Yasuo Fujitsu Laboratories of See response to comment 414. Response Response Response to comment 414. C/ 96 SC 96.5.2 P 57 L 6 # 624 It should be "The return loss of the link segment" C/ 96 SC 96.7.2 P 60 L 5 # 627 Comment Type E Comment Status R See response to comment 414. SuggestedRemedy Add a table caption. Add a table caption to text. An edit result of removing a comma with strike bar is left. Response Response Status C Clean up the edit result. Response Status Response Response Status C Response Status C ACCEPT.		the table caption to text						
REJECT. See response to comment 442. Cl 96 SC 96.5.5.2 P 57 L 6 # 624 Hidaka, Yasuo Fujitsu Laboratories of ACCEPT. Comment Type E Comment Status R Table caption is missing. SuggestedRemedy Add a table caption. Add a table caption to text. Response Response Status C Comment Type E Comment Status A Response Response Status C Comment Type E Comment Status A Add a table caption. Add a reference for the table caption to text. SuggestedRemedy A An edit result of removing a comma with strike bar is left. Response Response Status C Clean up the edit result. Response Status C REJECT. Response Response Status C ACCEPT. Clean up the edit result. Response Status C		·						
See response to comment 442. ACCEPT. Cl 96 SC 96.5.5.2 P 57 L 6 # 624 Hidaka, Yasuo Fujitsu Laboratories of See response to comment 414. See response to comment 414. Cl 96 SC 96.7.2 P 60 L 5 # 627 Comment Type E Comment Status R Fujitsu Laboratories of Comment Type E Comment Status R Fujitsu Laboratories of SuggestedRemedy Add a table caption. Add a table caption to text. An edit result of removing a comma with strike bar is left. Response Response Status C Response Response Status C REJECT. Response Status C ACCEPT.	•				-			
Hidaka, Yasuo Fujitsu Laboratories of Comment Type E Comment Type E Comment Status R Table caption is missing. Fujitsu Laboratories of SuggestedRemedy Add a table caption. Add a table caption. Add a reference for the table caption to text. Response Response Status REJECT. Clean up the edit result. Response Response Status C ACCEPT.	See response to cor	nment 442.						
Comment Type E Comment Status R Hidaka, Yasuo Fujitsu Laboratories of Table caption is missing. Fujitsu Laboratories of Comment Type E Comment Status A SuggestedRemedy An edit result of removing a comma with strike bar is left. An edit result of removing a comma with strike bar is left. SuggestedRemedy Add a table caption. Add a reference for the table caption to text. SuggestedRemedy Clean up the edit result. Response Response Status C Response Response Status C REJECT. Response Status C ACCEPT. ACCEPT. C	C/ 96 SC 96.5.5	.2 P 57	L 6	# 624	See response to comment 414.			
Table caption is missing. Comment Type E Comment Status A SuggestedRemedy An edit result of removing a comma with strike bar is left. Add a table caption. SuggestedRemedy Clean up the edit result. Response Response Status C REJECT. Response Response Status C ACCEPT. ACCEPT. ACCEPT. ACCEPT.	Hidaka, Yasuo	Fujitsu Labor	atories of		C/ 96 SC 96.7.2 P 60 L 5 # 627			
SuggestedRemedy An edit result of removing a comma with strike bar is left. Add a table caption. Add a reference for the table caption to text. Response Response Status REJECT. Response Status	Comment Type E	Comment Status R						
Add a table caption. SuggestedRemedy Add a reference for the table caption to text. C Response Response Status REJECT. Response Status	•	sing.						
Add a reference for the table capiton to text. C Response Response Status REJECT. Response REJECT. Accept.	,							
Response Response Status C Response Status C Response Status C Response Status C ACCEPT.								
		Response Status C			Response Response Status C			
Use commentors suggested remedy.	See response to cor	nment 418.						

C/ 96 SC 96.10.2.2 Hidaka, Yasuo	P 62 Fujitsu Laboratories	L 44 # 628	C/ 96SC 96B.1.1P 67L 46# 631Hidaka, YasuoFujitsu Laboratories of
Comment Type E The table external bord	Comment Status A ler lines have inconsistent thicknes	s.	Comment Type E Comment Status A Section level is inconsistent between internal and external loopback functions.
SuggestedRemedy Make the horizontal bo	rder lines at line 44 and 46 thick.		SuggestedRemedy Change the section of External Loopback Function as 96B.2.
Response ACCEPT.	Response Status C		Response Response Status C ACCEPT.
Cl 96 SC 96B.1 Hidaka, Yasuo	P 67 Fujitsu Laboratorie:	L 39 # 629	Use commentors suggested remedy.
Comment Type E Figure caption is missir	Comment Status A ng for Figure 96B-1.		C/96SC96B.1.1P632Hidaka, YasuoFujitsu Laboratories of
SuggestedRemedy Add a figure caption fo	r Figure 96B-1.		Comment Type E Comment Status A Caption is missing for Figure 96B-2.
Response ACCEPT.	Response Status C		SuggestedRemedy Add a caption to Figure 96B-2.
Use commentors sugg	ested remedy.		Response Response Status C ACCEPT. ACCEPT.
C/ 96 SC 96B.1 Hidaka, Yasuo	Р 67 Fujitsu Laboratories	L 30 # 630	Use commentors suggested remedy.
Comment Type E The box of 100BASE-T	Comment Status A 1 PCS Transmit is marked as sele	cted.	C/96SC96B.1.1P68L6#633Hidaka, YasuoFujitsu Laboratories of
SuggestedRemedy De-select the box of 10	00BASE-T1 PCS Transmit.		Comment Type E Comment Status A Highlight of spell checker is left.
Response ACCEPT.	Response Status C		SuggestedRemedy Remove highlight of spell checker from 3 locations.
			Response Response Status C ACCEPT.

Cl 96 SC 96.1.1 P 15 L 20 # 634	C/ 96 SC 96.1.2 P 15 L 43 # 636
Hidaka, Yasuo Fujitsu Laboratories of	Hidaka, Yasuo Fujitsu Laboratories of
Comment Type T Comment Status A	Comment Type T Comment Status R
An objective regarding for automotive environment is not included.	Relationships with 100BASE-T PHY specified in clause 21, repeater specified in clause 27, and auto negotiation specified in clause 28 are expected in this section, but missing.
Therefore, I do not understand some technical choices, such as not to support auto negotiation.	SuggestedRemedy
I think the objective should refer to the automotive environment in the same way as the	Add brief description about relationships with 100BASE-T PHY specified in clause 21, repeater specified in clause 27, andd autonegotiation specified in clause 28 in this section.
ojbective of this project.	Response Response Status C
SuggestedRemedy	REJECT.
Add an objective "Support 100Mb/s operation in automotive environment (e.g. EMC, temperature) over a single balanced twisted pair".	Clause 21 and 27 are not listed because 100BASE-T1 only supports full duplex operation. Clause 28 Auto-Negotiation is not supported.
Response Response Status C	
ACCEPT IN PRINCIPLE.	C/ 96 SC 96.4.4 P 45 L 5 # 637
Replace existing objectives with 100BASE-T1 objectives.	Hidaka, Yasuo Fujitsu Laboratories of
	Comment Type T Comment Status A
Cl 96 SC 96.1.2 P15 L 30 # 635	BroadR-Reach is not understandable.
Hidaka, Yasuo Fujitsu Laboratories of	SuggestedRemedy
Comment Type T Comment Status R	Provide a definition of BroadR-Reach, or change the term.
It is not clear why it refers to 1000BASE-T regarding to the number of pairs, because its data rate is different.	Response Response Status C ACCEPT IN PRINCIPLE.
I think reference to 100BASE-T4 or 100BASE-TX is more appropriate regarding to the number of pairs, because their data rate is same.	See response to comment 577.
SuggestedRemedy	C/ 96 SC 96.5.2 P 49 L 3 # 638
Replace line 30 and 31 with the following:	Hidaka, Yasuo Fujitsu Laboratories of
IEEE 802.3 100BASE-T4 PHY specified in Clause 23 operates over four pairs of balanced cable channel. IEEE 802.3 100BASE-TX PHY specified in Clause 25 operates over two	Comment Type T Comment Status A test modes
pairs of balanced cable channel. In contrast, the 100BASE-T1 PHY operates over a one	This is not the section to define the control register.
pair channel.	SuggestedRemedy
Response Response Status C REJECT.	Move the definition of 3-bit control register Table 96-4 to clause 45, and add a reference to the register at line 3.
Several aspects (Full duplex, MASTER-SLAVE, loop timing, etc.) in 100BASE-T1 are	Response Response Status C
similar to 1000BASE-T.	ACCEPT IN PRINCIPLE.
	Delete the table in Clause 96, and replace it with a list in text of the test modes (1 through 5) as it will be convenient to the reader to see a list of the test modes before each is described.

C/ 96 SC 96.5.2 Hidaka, Yasuo	Р 50 Fujitsu Labora	L 14 atories of	# 639	C/ 96 SC 96.5.5.3 Hidaka, Yasuo	P 57 Fujitsu Labor	L 26 ratories of	# 642
Comment Type T Reference to section P	Comment Status A CS transmit symbol mapping	is required.		Comment Type T Con 500 O (two locations) and 100	mment Status A) O are odd.		
SuggestedRemedy Add a reference to the	section.			SuggestedRemedy Change them with "500 Ohm"	' and "100 Ohm".		
Response ACCEPT IN PRINCIPL	Response Status C E.			Response Res ACCEPT IN PRINCIPLE.	ponse Status C		
Change "Section PCS transmit "Section PCS transmit	symbol mapping." to symbol mapping in 96.3.2.4.			See response to comment 38	P 57	L 32	# 643
Cl 96 SC 96.5.3 Hidaka, Yasuo Comment Type T The disturbing signal V	P 51 Fujitsu Labora <i>Comment Status</i> A /d is not clear.	L 45 atories of	# 640	Hidaka, Yasuo Comment Type T Cou BroadR-Reach is not defined. SuggestedRemedy Provide a definition of BroadF			
Add the genetor equipr		I.			ponse Status C		
Response ACCEPT IN PRINCIPL	Response Status C .E.			See response to comment 57	7.		
See response to comm	nents 336 and 84.			C/ 96 SC 96.1.2.3 Marris, Arthur	P 30 Cadence Des	L 17 sign Syst	# 644
Cl 96 SC 96.5.4.2 Hidaka, Yasuo	P 54 Fujitsu Labora	L 3 atories of	# 641	Comment Type E Con over _each wire pair	mment Status A		Late
Comment Type T Right matrix divide is o				SuggestedRemedy Change to "over each wire pa	ir." Also fix "Start-of_s	stream".	
It is probably typo of let SuggestedRemedy				Response Res ACCEPT IN PRINCIPLE.	ponse Status C		
Change "tx1/X" with "tx Response REJECT.	Response Status C			See response to comment #2	7 and #163.		
"/" is the intended oper	ator.						

C/ 96 SC 96.2.1.1 Marris, Arthur	P 32 Cadence Desig	L 26 In Syst	# 645	C/ 96 SC 96.3 P 24 L 37 # 648 Brown, Thomas Vitesse Semiconducto Vitesse Semiconducto Image: Content of the second s
Comment Type E Double ""	Comment Status A	in Oyst	Late	Comment Type E Comment Status A 1-D 3 level (+1, 0, -1) nomenclature is used
" -by" and replace with	scrb the document for other o "by" for example see page 32		o scrub document for	where in 96.3.2.3 line 29: A ternary code that can take values (-1,0,1) Pick one description.
Response ACCEPT IN PRINCIPL See response to comm	Response Status C E. ent 182. Will also scrub draft fe	or erroneous "-"	' <u>.</u>	SuggestedRemedy ternary code (-1,0,1)
<i>Cl</i> 45 <i>SC</i> 45.2.1.1 Marris, Arthur	P 24 Cadence Desig	L 33 In Syst	# 646	Response Response Status C ACCEPT IN PRINCIPLE.
register bit definitions s SuggestedRemedy	Comment Status A change to "speed selection" in hould be. reference to this sub clause. Response Status C	Table 45–4—P	Late MA/PMD control 1	See response to comment #28. C/ 96 SC 96.5.1 P 48 L 28 # 649 Brown, Thomas Vitesse Semiconducto Comment Type E Comment Status D The sentence belwo suggests all "Systems" must meet automotive EMC.
ACCEPT IN PRINCIPL See response to comm Cl 96 SC 96.2.3.2 Brown. Thomas	E.	L 12	# 647	Systems containing a 100BASE-T1 Ethernet PHY shall be able to meet the Electromagnetic Compatibility (EMC) requirements of the automotive applications. SuggestedRemedy
Comment Type E MASTER-SLAVE config	Comment Status R			Automotive Systems containing a 100BASE-T1 Ethernet PHY shall be able to meet the Electromagnetic Compatibility (EMC) requirements of the automotive applications.
SuggestedRemedy MASTER or SLAVE col	nfiguration			Proposed Response Response Status Z REJECT.
				This comment was WITHDRAWN by the commenter.

C/ 96 Brown, Thon	SC 96.3.2.4.6 nas	P 34 Vitesse	e Semiconduc	L 10 cto	#	650	
training s in Table	the 9 possible valu sequence as indic 96–1. The SSD/E	Comment Status I les for the ternary p ated SD ternary pairs ar An, TBn pairs as va	e not used fo	, ,	ies are	used in the	
SuggestedR		an, i bii pans as va	iiu.				
00	,	w the 6 valid TAn, 1	ΓBn pairs.				
Response REJECT		Response Status	W				
Table 96	3-1 shows 6 unique	e ternary output val	ues for 8 inp	ut values.			