IEEE P802.3bp D1.2 1000BASE-T1 PHY 3rd Task Force review comments

C/ 97 SC 97.1 Brown, Thomas	P 29 Vitesse Sem	L 15 iconducto	# 146	Cl 97 SC 97.3.2.2 Brown, Thomas	2 P 31 Vitesse Sem	L 19 iconducto	# 141
network specifications defining the automotiv over a single	e link capable of operating at er cabling, referred to as an a	1000 Mb/s and i	ntended to be operated	Comment Type E Alignment to 80B/811 performed in the PCS SuggestedRemedy Alignment to 80B/811 performed in the PCS Proposed Response	3. 3 blocks is		
SuggestedRemedy							
network specifications	IY is one of the Gigabit Ether , capable of operating at 100 alanced copper cabling, refer link ined in 97.5.4.	0 Mb/s and intend	ded to be operated	Cl 97 SC 97.3.2.2 Mitsuru, Iwaoka Comment Type T	P 31 Yokogawa E Comment Status X	L 26 lectric Cor	# 137
Proposed Response	Response Status 0			The term "OAM9" is	used without definition.		
C/ 97 SC 97.2	P 30 Marvell Semi	L 6 conducto	# [170	SuggestedRemedy Add a definition of "C Proposed Response	AM9" in the subclause 1.4. Response Status O		
Comment Type T Section 97.3.7 and 97.	Comment Status X 3.8 in wrong location			C/ 97 SC 97.3.2.2	P 31	L 32	# 142
SuggestedRemedy Move 97.3.7 to 97.2.1 Move 97.3.8 to 97.2.2	Ĵ			Brown, Thomas Comment Type E These codes are use			
Proposed Response	Response Status O			training mode and or SuggestedRemedy	ly transmit the values {-1, +1	}.	
C/ 97 SC 97.2 McClellan, Brett	P 30 Marvell	L 6	# 127	These codes are use	ly transmit the PAM 3 symbol	s {–1, +1}.	
Comment Type T	Comment Status X 000BASE-T1 Service Primitiv	ves and Interface	s	rioposed response	Response Status 0		
SuggestedRemedy Use text in mcclellan_: Also delete redundant	3bp_01_0215.pdf. sections 97.3.7 and 97.3.8						
Proposed Response	Response Status 0						

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E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 97 SC 97.3.2.2 Page 1 of 13 2/6/2015 11:25:35 AM

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Cl 97 SC 97.3.2.2.11 P 35 L 45 # 139 Brown, Thomas Vitesse Semiconducto	C/ 97 SC 97.3.2.2.11 P 37 L 37 # 150 Brown, Thomas Vitesse Semiconducto Vitesse Semiconducto Description Descrinding Description D
Comment Type T Comment Status X The code is based on the generating polynomial shown in Equation (97–1). (97–1) where is a root of the binary primitive polynomial and is represented as 0x002	Comment Type TR Comment Status X The resulting payload of scrambled 45 81B blocks, followed by the OAM9 symbol results i a total payload of 45 . 81 + 9 = 3646 bits.
$G(Z) (Z - \acute{a}i) = A44Z44$ SuggestedRemedy	SuggestedRemedy The sum should be 3654.
I prefer the generator polynomial equations given in shen_3bp_01a_0914.pdf on slide 3. There was a motion to pass this proposal and it would be good traceability to this slide 3. This equation also lists the powers of alpha explicitly.	The way to is that 406 * 9 =3654. <i>Proposed Response Response Status</i> O
Proposed Response Response Status O	C/ 97 SC 97.3.2.2.4 P 33 L 42 # 143 Brown, Thomas Vitesse Semiconducto Vitesse Semiconducto # 143
Cl 97 SC 97.3.2.2.11 P 37 L 28 # 149 Brown, Thomas Vitesse Semiconducto Vitesse Semiconducto 149	Comment Type E Comment Status X The LSB of the OAM9 symbol is transmitted first.
iowii, momas vitesse Semiconducto	Symbol is transmitted list.
	Symbol is transmitted first. SuggestedRemedy The figure 97-2 should show the LSB of the OAM9 symbol as the left most bit to make it clear. Proposed Response Response Status O
Comment Type TR Comment Status X where is the data vector . is the first data octet and is the last. is the parity vector . is the first parity octet and is the last. SuggestedRemedy	SuggestedRemedy The figure 97-2 should show the LSB of the OAM9 symbol as the left most bit to make it clear. Proposed Response Response Status
Comment Type TR Comment Status X where is the data vector . is the first data octet and is the last. is the parity vector . is the first parity octet and is the last.	SuggestedRemedy The figure 97-2 should show the LSB of the OAM9 symbol as the left most bit to make it clear.

C/ 97 SC 97.3.2.2.5

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C/ 97 SC 97.3.2.2 McClellan, Brett	.8 P 36 Marvell	L 13	# 128	Cl 97 SC 97.3.5.4 Brown, Thomas	P 45 Vitesse Semi	L 12 conducto	# 140
Comment Type T "When deleting, the fi	Comment Status X rst four Idles after a TX_EN is		I not be deleted."	Comment Type E The term UCT is not	Comment Status X defined locally in this documer	nt.	
task force should disc	n Clause 55 that doesn't apply suss	/ to 1G?		SuggestedRemedy Include UCT in section	n 1.5 - means unconditional tr	ansition	
SuggestedRemedy delete text				Proposed Response	Response Status 0		
Proposed Response	Response Status O						
X 97 SC 97.3.2.3	P 39	L 16	# 144	Cl 97 SC 97.3.5.4 McClellan, Brett	A P 47 Marvell	L 34	# 130
Brown, Thomas	Vitesse Sem	- • •	<i>n</i> 1	Comment Type T The SEND LPI and S	Comment Status X SEND_WAKE have no exit in o	case of link down	. they need transitions
Comment Type E	Comment Status X frames are decoded with error	or correction the	froming is	to SEND_IDLES if !tx			,,
	8/81B ordered sets are conver	,	0	SuggestedRemedy add transitions to SE	ND_IDLES if !tx_data_mode		
SuggestedRemedy change to: 10 data by	tes			Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 97 SC 97.4.2.5 Tu, Mike	6 P 53 Broadcom	L 48	# 117
C/ 97 SC 97.3.5.2 AcClellan, Brett	.4 P 43 Marvell	L 30	# 129	Comment Type T There is no interop be	Comment Status X etween PHY with autoneg ena	ble and PHY in fo	orced mode
Comment Type T Per the approved prop SEND_LPI state.	Comment Status X posal, the ENCODE function	shall only encode	LPI_IDLE while in the	SuggestedRemedy Adopt changes propo Proposed Response	psed in "tu_3bp_03_0215.pdf".		
SuggestedRemedy				Proposed Response	Response Status O		
	on shall only encode LPI_IDLI s converted to Idle in the ENG		ND_LPI state.	C/ 97 SC 97.4.2.5	<i>P</i> 53 Broadcom	L 48	# 119
Proposed Response	Response Status O			Comment Type TR	Comment Status X	AM for PHY w/o	autoneg.
				SuggestedRemedy	iges outlined in "tu_3bp_01_02		
				Proposed Response	Response Status 0		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 97
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 97.4.2.5
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 SC
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C/ 97 SC 97.4.2.5	P 54	L 16	# 100	C/ 97 SC 97.4.2		P 57	L 2	# 105
Regev, Alon	Ixia			Regev, Alon	lxi			
Comment Type E	Comment Status X			Comment Type E	Comment Stat			
Figures 97-13 through 97	-16 should be in B&W			In Figure 97-17, the state.	CRCGen vs. CRCou	it switch is r	not clear as to it	s value in the CRCout
SuggestedRemedy								
Remove colors from figur	es 97-13 through 97-16			I have made a simila on draft 1.1).	ar comment for figure	e 98-3 in the	e last review cyc	cle (see comment #88
Proposed Response	Response Status 0			SuggestedRemedy				
				00 ,	s CRCout switch as	a switch th	at has a "0" inp	ut in the CRCout state
C/ 97 SC 97.4.2.5.4	P 55	L 25	# 116	and the input from the				
Tu, Mike	Broadcom			See file at http://www	v jeee802 ora/3/bp/r	ublic/ian15/	1EEE%20802 3	hn%20-
Comment Type T	Comment Status X			%20Jan2015%20-	v.ieee002.01g/0/bp/p	ublic/jarri J/	ILLL /020002.5	bp 7820-
SLAVE should be able to	start with "timing_lock_ok=	=1".				gure%2098-	3.pptx for an ex	ample of the change to
SuggestedRemedy				the CRCout switch o	0			
Change line 25 from				Proposed Response	Response Stat	us O		
" the first transmitted DN	/A frame shall be the first r	ow of Toble 07	E for the MASTED and					
the first row of Table 97-		ow of Table 97-	S IOF THE WASTER and	C/ 97 SC 97.4.2	5.9	P 56	L 51	# 124
				Chen, Steven	Br	oadcom		
to:				Comment Type TR	Comment Stat	us X		
	/A frame shall be the first r Table 97–6 for the SLAVE		5 for the MASTER and	Auto-Negotiation is introduced here.	optional according to	the Objecti	ve. The FORCE	E mode needs to be
Proposed Response	Response Status 0			SuggestedRemedy				
				Insert the following				
C/ 97 SC 97.4.2.5.8	P 56	L 40	# 122					used to achieve link E mode, PMA_CONFIC
Chen, Steven	Broadcom	L 40	# 122	is pre-determined to	be Master or Slave	via manage	ment control du	iring initialization or via
Comment Type TR	Comment Status X			default hardware se PHY initialization. W				ENABLE during the
Oct4 should also be cove				INIT_MAXWAIT_TI				
SuggestedRemedy				Proposed Response	Response Stat	us O		
Change								
5	Oct10 are used to comput	e"						
То	0.440	 "						
"Afterworde Oatd through								
"Afterwards Oct4 through Proposed Response	Response Status 0	e						

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 97 SC 97.4.2.5.9 Page 4 of 13 2/6/2015 11:25:36 AM

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C/ 97 SC 97.4.2.5 Chen, Steven	5.9 <i>P</i> 56 Broadcom	L 51	# 123	<i>CI</i> 97 Regev, Alo	SC 97.4.2.5.9 n	Р 57 Іхіа	L 18	# 109	
Comment Type TR Auto-Negotiation is o SuggestedRemedy Change beginning of	Comment Status X ptional according to the Object line 51	ive.		negotia	Type TR Coll auto negotiation is opt titon is not implemente riable link_control is de	d and PHY Link Sync	chronization is use	ed instead.	
"During Auto-Negotia	tion, PHY Control"			that lin	elemented, then any re c_control referenced e egotiation is not used a	ither clause 98 (if auto	o negotiation is us	ed) or clause 97.6 (
To "Auto-Negotiation im Proposed Response	plementation is optional. During Response Status 0	g Auto-Negotiat	ion, PHY Control"	Suggested	Remedy 6, line 51:			·	
				state a With "Auto-N Auto-N transm DISAB	e J Auto-Negotiation, PH nd the transmitters are legotiation is optional egotiation PHY Contro itters are disabled. If J LE_TRANSMITTER st onization state mahcir	disabled." in 1000BASE-T1 PHY I is in the DISABLE_T Auto-Negotiation is no ate and the transmitte	∕s. If Auto-Negoti IRANSMITTER si t used, PHY Cont	iation is used, during tate and the trol is in the	
				Replac "When INIT_M With "When whent t enters	7, line 18: e the Auto-Negotiation p IAXWAIT_TIMER state the Auto-Negotiation a he PHY Link Synchror the INIT_MAXWAIT_T he maxwait_timer is st	e. Upon entering this s asserts link_control=E nization process asse IMER state. Upon er	state the maxwait NABLE (if Auto N rts link_control=E	_timer is started." legotiation is used) (NABLE , PHY Conti	or
				Replac "Upon link_co signal i With "Upon	8, line 23: e power on, reset, or rele ntrol=DISABLE and se ts presence to a remo power on, reset, or rele onization algorithms se	ends half duplex Differ te station." ease from power down	rential Mancheste n, the Auto-Negot	r Encoded data to	3
				Replac "If the p algorith With	8, line 27: e presence of a remote 1 m permits full operation Auto-Negotiation esta	on by setting link_cont	trol=ENABLE."	C C	
	ired ER/editorial required GR/ dispatched A/accepted R/reje				Z/withdrawn	C/ 9 SC 9	7 7.4.2.5.9	Page 5 of 1 2/6/2015 1	

SORT ORDER: Clause, Subclause, page, line

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Auto Negotiation is used0 or when the PHY Link Synchronization finishes the synchronization fucntion (if Auto-Negotiation is not used), link_control is set to ENABLE, and the Link Monitor state machines begins monitoring the PCS and receiver look status." Page 59, Line 31 Replace the definition of link_control: "link_control

This variable is defined in 98.5.1."

with

"link_control When Auto-Negotiation is used, this variable is set as defined in 98.

When Auto-Negotiation is not used, this variable is set as defined in section 97.6" *Proposed Response* Response Status **O**

C/ 97 SC 97.4.4.1 P 59

Chen, Steven

Broadcom

Comment Type T Comment Status X

The link_control variable cannot only be defined in 98.5.1 since Clause 98 is an optional function. Suggest the following modifications.

L 32

120

SuggestedRemedy

Change

"This variable is defined in 98.5.1."

То

"This variable is set by management and FORCE mode configuration. If the Auto-Negotiation is implemented and enabled, this variable is defined in 98.5.1. Values: ENABLE or DISABLE"

Proposed Response Response Status O

C/ 97	SC 97.4.5	P 61	L 11	# 132
McClella	n, Brett	Marvell		

Comment Type T Comment Status X

Competing paths in PHY Control and Link Monitor lead to the local device and link partner going out of sync. One device can start a retrain (98ms) the other can go to Autoneg or Synchronization and will have to wait for the local device. See McClellan_3bp_02_0215.pdf

SuggestedRemedy

Remove INIT_MAXWAIT_TIMER DISABLE_TRANSMITTER -> SILENT when link_control = ENABLE In SEND DATA remove "stop maxwait_timer"

Proposed Response Response Status **O**

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

CI 97	SC 97.4.5	P 62	L 21	# 131
McClellan,	Brett	Marvell		
effect PMA_v	watchdog_status until the 98ms ti watchdog_status	Comment Status X s is gated by maxwait_time_ mer expires. s was proposed as a fast link ation as quickly as possible	drop to ensure a	PHY returns to
Suggested	lRemedy			
	ait_time_done * watchdog_status	(PCS_status = NOT_OK + lo s = NOT_OK	<pre>bc_rcvr_status = N</pre>	NOT_OK) +
Proposed	Response	Response Status O		
CI 97 Chen, Stev	SC 97.4.5.2 /en	P 62 Broadcom	L 24	# <u>1</u> 25
Comment Auto-N	51	Comment Status X	ctive. Suggest the	following changes.
and lin	e E 2-The variable	s link_control and link_status 1, respectively, by the Auto-		
and lin	k_status_1GigT	s link_control and link_status 1, respectively, by the Auto- tional Auto-Negotiation is in	Negotiation Arbitra	
Proposed	Pasnonsa	Posponso Status		

Proposed Response Response Status **O**

Cl	97
SC	97.4.5.2

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	P 62	L 30	# 180	CI 97 S	C 97.5.4.3.4	P 7	1	L 5~20	# 178
Andrew Gardner	Linear Technolog	gy Cor		Bert Bergner		TE C	onnectivity		
measurement, transmit PSD/transmit power lev resistors or baluns that transmitters. Although t test fixtures that can be and incompatibility with	Comment Status X i_3bp_02_0115.pdf includes ter ter distortion measurement, ME vel measurement. All of these fit may be damaged in the presen his clause is only intended to a damaged by DC bias at the MI PoDL when implementing the a	DI jitter measureme xtures use DC cou nee of power over o ddress PHY specif DI creates the pote	nt, and pled termination lata lines capable ic issues, showing intial for confusion	PŠAACRF SuggestedRen	26: The y-axis nedy e axis descrip	Comment Status description in the o tion to "PSAACRF Response Status	diagram is "Re (dB)	⊭turn Loss" b	out it should be
SuggestedRemedy Add low loss AC couplir used by the transmitter	ng capacitors in series with the test circuits included in Chini_3	termination resistc 3bp_02_0115.pdf	rs and baluns	<i>Cl 97 S</i> Lo, William	C 97.6	P 7 Marve	3 ell Semicondu	L 12	# 177
Proposed Response	Response Status O			Comment Type Need some	e TR e descriptive t	Comment Status	x		
Cl 97 SC 97.5 Andrew Gardner Comment Type ER Baseline text from Chini motion approved by the	P 62 Linear Technolog Comment Status X i_3bp_02_0115.pdf was not inc group in Atlanta.		# [<u>181</u> 2 as per the	prior to 100 If Clause 9	onization sta 00BASE-T1 li 8 Auto-Negot	nk training. iation is enabled th	en it shall be u	used as the r	nchronize the PHYs mechanism for PHY the DISABLE state.
SuggestedRemedy	e text from Chini_3bp_02_0115	.pdf into the draft.		Proposed Resp	oonse	, Response Status	0		
incorporate the baseline					C 97.6.2	P7	4	L 31	# 108
1	Response Status O			<i>Cl</i> 97 S Regev, Alon	C 97.0.2	Ixia			
Proposed Response C/ 97 SC 97.5.4.2.4 Mitsuru, Iwaoka	P 68 Yokogawa Electi	L 23 ric Cor	# 138	Regev, Alon Comment Type "Auto-Nego	T DISA	Ixia <i>Comment Status</i> BLE" is a confusing	x	state as we	
Proposed Response Cl 97 SC 97.5.4.2.4 Mitsuru, Iwaoka Comment Type T The definition of "Coupl	P 68	ric Cor	# 138	Regev, Alon Comment Type "Auto-Nego Auto-Nego SuggestedRen	e T btiation DISAI tiation is enal	Ixia <i>Comment Status</i> BLE" is a confusing	X name for the s		are in this state wher
Proposed Response Cl 97 SC 97.5.4.2.4 Mitsuru, Iwaoka Comment Type T The definition of "Coupl SuggestedRemedy	P 68 Yokogawa Electi Comment Status X	ric Cor	# <u>138</u>	Regev, Alon Comment Type "Auto-Nego Auto-Nego SuggestedRen	e T btiation DISAI tiation is enal <i>bedy</i> e state "Auto	Ixia Comment Status BLE" is a confusing oled.	X name for the s SLE" to "SYNC		are in this state when

C/ 97 SC 97.6.2

Received Comments	s le	EEE P802.3bp	D1.2 1000BASE-T1	PHY 3rd Task Force rev	iew comments		
C/ 97 SC 97.6.2	P 74 Marvell Semic	L 31 conducto	# 167	<i>Cl</i> 97 SC 97.7 Lo, William	P 74 Marvell Semi	L 1 conducto	# 171
Comment Type E Figure 97-27 Label Auto	Comment Status X o-Negotiation DISABLE can I	be confusing		Comment Type TR Lots of missing text a	Comment Status X nd diagrams in OAM.		
SuggestedRemedy Change Auto-Negotiatio Proposed Response	on DISABLE to DISABLE Response Status O			descriptions Lo_3bp_	i.pdf for all missing text and d D2_0115.pdf love all Editors Notes in 97.7	-	
C/ 97 SC 97.6.2 McClellan, Brett	P 74 Marvell	L 41	# 133	Proposed Response	Response Status O		
Comment Type T figure 97-27 title is wror	Comment Status X			C/ 97 SC 97.7 Brown, Thomas	P 74 Vitesse Semi	L 47 iconducto	# 147
SuggestedRemedy change figure title to: "F	PHY Link Synchronization sta	ate machine"		Comment Type ER exchanging PHY link	Comment Status X neal the status		
Proposed Response	Response Status O			SuggestedRemedy exchanging PHY link	nealth status		
C/ 97 SC 97.6.2.2.9	P 77 Marvell Semic	L 54 conducto	# 163	Proposed Response	Response Status O		
Comment Type E Extra phrase not neede	Comment Status X			C/ 97 SC 97.7 Brown, Thomas	P 75 Vitesse Semi	L 1 iconducto	# 145
SuggestedRemedy Delete the hanging phra	ase			Comment Type E This 9-bit is used	Comment Status X		
The first 10 bytes proposed Response	Response Status 0			SuggestedRemedy This 9-bit field is used			
				Proposed Response	Response Status O		

IEEE P802.3bp D1.2 1000BASE-T1 PHY 3rd Task Force review comments

C/ 97 SC 97.7.2.6 P 80 L 1 # 164 Lo, William Marvell Semiconducto Marvell Semiconducto <td< td=""><td>C/ 97 SC 97.7.4.1 P 84 L 36 # 176 Lo, William Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto</td></td<>	C/ 97 SC 97.7.4.1 P 84 L 36 # 176 Lo, William Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto
Comment Type E Comment Status X Table 97-9 in the wrong section	Comment Type TR Comment Status X mr_tx_received need some additional explanatory text to describe how it clears
SuggestedRemedy Move table 97-9 immedaitely after text in section 97.7.2.6 Proposed Response Response Status O	SuggestedRemedyAdd following sentence after first paragraph: This variable will clear on read.Proposed ResponseResponse StatusO
C/ 97 SC 97.7.3 P 80 L 30 # 165 Lo, William Marvell Semiconducto Marvell Semiconducto # 165 • 100	C/ 97 SC 97.7.4.2 P 86 L 11 # 166 Lo, William Marvell Semiconducto
Comment Type E Comment Status X Table 97-10 in wrong sub section SuggestedRemedy Move table 97-10 immediately after text in section 97.7.3	Comment Type E Comment Status X Add empty line before heading Also applies to 97.7.4.3 and 97.7.4.4
Proposed Response Response Status O	SuggestedRemedy Add empty line before heading
C/ 97 SC 97.7.3.1 P 81 L 35 # 175	Proposed Response Response Status O
Lo, William Marvell Semiconducto Comment Type TR Comment Status X Register 3.TBD0.13 need some additional explanatory text to describe how it clears. (Table 97-11)	CI 97 SC 97.7.4.3 P 86 L 27 # 168 Lo, William Marvell Semiconducto Comment Type ER Comment Status X
SuggestedRemedy In the description field add the following sentence: Bit will self clear on read. In the R/W field change: from RO to RO, LH	CRC16 and CRC16_Check functions refer to the wrong section SuggestedRemedy 97.6.2.2.10 in both cases should be changed to 97.7.2.2.10 Proposed Response Response Status O
Proposed Response Response Status O	

C/ 97 SC 97.7.4.3

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<i>Cl</i> 97 SC 97.7a Lo, William	P 86 Marvell Semio	L 54	# 172	CI 97 SC 97B.3 Bert Bergner	P 122 TE Connectiv	L 37 /itv	# 179
Comment Type TR Management interface SuggestedRemedy See Lo_3bp_02_0215 Should be new sectio	Comment Status X e section missing text 5.pdf for text n 97.8			Comment Type E The cable bundle sha over ground> This SuggestedRemedy Change to " 10mm	Comment Status X all be placed on dielectric insul is not consistent with the heig height over ground."	ation material (el	
Proposed Response	Response Status O			Proposed Response	Response Status O		
<i>Cl</i> 97 SC 97.7b Lo, William	P 86 Marvell Semio	L 54 conducto	# 173	<i>Cl</i> 97 <i>SC</i> 98.5.2 McClellan, Brett	P 112 Marvell	L 46	# 134
Comment Type TR Environmental specifi	Comment Status X cation in wrong section				Comment Status X rx_wait_timer can lead to locku enough to prevent multiple co		
SuggestedRemedy Delete section 97.5.5 Section 97.7b will be 97.9 Environmental S 97.9.1 General Safety 97.9.2 Network Safety 97.9.3 Environment	pecifications				timer shall expire 100 us to 10 shall expire 15 us to 17 us aft <i>Response Status</i> 0		
	still need to be supplied.			C/ 97 SC 98.5.5	P 114	L 4	# 126
Proposed Response	Response Status O			McClellan, Brett	Marvell		
C/ 97 SC 97.7c	P 86	L 54	# 174	Comment Type E All the text in figure 9	Comment Status X 8-11 is underlined.		
Lo, William	Marvell Semi	conducto		SuggestedRemedy	the test is firmer 00.44		
Comment Type TR Delay Constraints sec	Comment Status X			remove underline for Proposed Response	the text in figure 98-11 Response Status O		
SuggestedRemedy See Lo_3bp_02_0215 Should be new sectio	5.pdf for text			r ioposed nesponse	Response Status U		
Proposed Response	Response Status O						

CI 97 SC 98.5.5

C/ 98 SC 98.1.2 Chen, Steven	P 92 Broadcom	L 11	# 121	C/ 98 SC Regev, Alon	98.2.1.1.1	Р 94 Іхіа	L 8	# 111
In Figure 98-2, AUTONEG commu otherwise.	nt Status X unicates with PMA,	instead of PCS	. But the texts indicate		have 6 transition in the draft 1.2), b	nent Status X positions in the endi ut it looks like both t		
SuggestedRemedy				SuggestedRemed				
Change "PCS communicates with the AUT messages AN_LINK.indication"	ONEG sublayer th	rough the PCS	service interface	Delete the ser	ntence "The final 6	transition positions the end of the page		ng Manchester
To "AUTONEG communicates with th messages PMA_LINK.request and			service interface	Proposed Respon	se Respo	nse Status O		
· ·	e Status O			C/ 98 SC Cordaro, Jay	98.2.1.1.2	P 96 Broadcom	L 27	# 112
C/ 98 SC 98.2.1.1.1	P 93	L 5 1	# 110	<i>Comment Type</i> T2 and T3 lim		nent Status X s too loose, and do r	not match to T5 li	mits.
Regev, Alon Comment Type TR Commen the DME page has 158 (not 157) the discussed).	Ixia nt Status X ransitions (see pag	ge 94 , line 11 w	here transition 158 is		sition to clock trai	nsition 58.4 60 61.6 sition (data = 1) 28.4		
SuggestedRemedy Change "157" to "158" Proposed Response Respons	e Status O					nsition 59.994 60 60 sition (data = 1) 29.9		n
- TOPOSEU RESPONSE RESPONS				Proposed Respon	se Respo	nse Status O		
C/ 98 SC 98.2.1.1.1 Regev, Alon	Р 94 Іхіа	L 40	# 106					

Proposed Response Response Status **O**

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

C/ 98 SC 98.2.1.1.2 Page 11 of 13 2/6/2015 11:25:36 AM

C/ 98 SC 98.2.1. Cordaro, Jay	1.2 <i>P</i> 96 Broadcom	L 29	# 113	<i>Cl</i> 98 Tu, Mike	SC 98.5	P 117 Broadcom	L 23	# 115
"IEEE 802.3bp - Jan SuggestedRemedy Change T4a from "T4a +1 to -1 or -1 to to		igure 98-7.pptx"). 80 - 144"		s Suggested Chang from "((link_st link_fa incom to "((link_st link_st link_st link_fa	ure 98-14, the ex IRemedy	(). .done) + .e" FAIL + EADY). .done) +		s incorrect.
C/ 98 SC 98.2.1. Cordaro, Jay Comment Type T Auto-Negotiation sho	2 <i>P</i> 97 Broadcom <i>Comment Status</i> X puld support vendor ID and ver	L 28	# 114	Proposed Cl 98 Regev, Ald	SC 98.5.3	Response Status 0 P 113 Ixia	L 27	# 102
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C/ 98 SC 98.5 Tu, Mike Comment Type T	P 117 Broadcom Comment Status X	L 2	# 118	replac replac Proposed	e "not_dONE" w e "dONE" with " <i>Response</i>	/ith "not_done"; done" <i>Response Status</i> O		
There is no interop between PHY with autoneg enable and PHY in forced mode SuggestedRemedy Adopt changes proposed in "tu_3bp_03_0215.pdf". Proposed Response Response Status O		orced mode	C/ 98 Lo, Willian Comment Remo Suggested	<i>Type</i> ER ve underline from	P 114 Marvell Semic <i>Comment Status</i> X m figure 98-11	L 4 conducto	# <u>169</u>	
				Remo	ve underline from Response	m figure 98-11 <i>Response Status</i> O		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 98	Page 12 of 13
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 98.5.5	2/6/2015 11:25:36 AM
SORT ORDER: Clause, Subclause, page, line		

IEEE P802.3bp D1.2 1000BASE-T1 PHY 3rd Task Force review comments

C1 99 SC P1 L17 # 107 Reger, Alon bia Colliging name is inconsistent. Many different names for cabling pp 1. In 77: a single pair of the list Copper Cable pp 1. In .27: a single pair of balanced copper cabling pp 19. In .27: a single pair of balanced copper cabling pp 19. In .27: a single pair of balanced copper cabling many pp 10. In .27: a single pair of balanced copper cabling sp 19. In .28: a single pair of balanced copper cabling sp 19. In .28: a single pair of balanced copper cabling methods copper cabling in all occurances in this draft (including titles). Comment Type E Comment Type Lin .27: a single pair of balanced copper cabling in all occurances in this draft (including titles). Armend the PAR with the new title Proposed Response Response Status O C1 99 SC P10 L1 101 Reger, Alon bia Comment Status X Commend the PAR with the new title Proposed Response Response Status O Ci 99 SC P10 L1 101 Reger, Alon bia Comment Status X Comment Status X Comment Status X Comment Status Comment Status X Comment Status Comment Status Comment Status X Comment Status Status Comment Status Status Comment Status								
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