

Comment Type TR Comment Status D

The rejection of initial ballot comment #130 did not address the portion of the comment that P802.3bw introduces ambiguities into IEEE Std 802.3. The choice to use Clause 45 registers and the Clause 45 MDIO interface is incompatible with text in clause 22. Unlike the GMII in Clause 35 the Clause 22 specifications require complete implementation of the MII including the management interface. <CR><CR>Clauses 22 34 and 35 include statements that are in conflict with the proposed use of Clause 45 registers and the MDIO interface to access them. The GMII as specified in Std 802.3 includes use of the management interface specified in Clause 22.

SuggestedRemedy

The attached file includes proposed text changes to avoid P802.3bv P802.3bp and P802.3bv introducing ambiguities. While only the Clause 22 changes are required for P802.3bw all text changes are included in the hope that P802.3bw will join with P802.3bp and P802.3bv in proposing common changes for all three projects. These changes can be requested in the P802 revision initial Sponsor ballot but to have a reasonable chance of the Maintenance committee accepting the proposed changes all three TFs should enforse them. If the text is acceptable the Clause 22 PICS will also have to be modified to introduce optionality of portions of the MII as has been done for Clause 35 GMII by approved 1000 Mb/s projects done after the initial set of PHYs approved in 1999 and 1998.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The issue with Clause 22 affects many approved 802.3 amendments. For example 802.3az EEE uses MDIO Interface rather than the Clause 22 MII Management Interface so 100BASE-T devices with EEE need the Clause 45 MDIO interface. This is a cross IEEE 802.3 issue that is out of the scope of 802.3bw and should be handled by the maintenance committee. The maintenance committee is working on it. It is up to them and the WG to decide whether the solution should be incorporated in the current 802.3 revision or through a separate maintenance corrigenda or amendment.

The 802.3bw task group supports the resolution of the issue in the maintenance group.

C/ 00 SC	P 11 L 22	# 83
Grow, Bob	RMG Consulting	

Comment Type ER Comment Status D

The description of 802.3bw has not been provided as requested in initial ballot comment #131. Note that no response to this request was included in initial ballot responses (the response only addressed one of the points of the comment.

SuggestedRemedy

Please write a description acceptable to the P802.3bw TF so that the description can be used in subsequent amendments.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See the response to comment #23.

C/ 00 SC	D	Р	L	# 2
Anslow, Pete		Ciena		
Comment Type	Е	Comment Status D		EZ

The convention for headings, table titles and figure titles in 802.3 is to capitalise only the first letter unless they contain a proper noun.

SuggestedRemedy

Correct the capitalisation of the titles of: 96.4.7, 96.5.4, 96.5.4.1, 96.7.1.1, 96.10.4.4, Annex 96A title, 96A.1, 96A.2

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 00 SC 0	P 0 L	12	# 76
Thompson, Geoff	GraCaSI S.A.		

Comment Type ER Comment Status D

Page 12 (blank?) is missing. This throws off the match between page numbers for the rest of the document. Please fix. I suspect that the printer test table was supposed to be inserted here and was forgotten as the document was being assembled.

SuggestedRemedy

Insert 1 page printer test table chart at this location.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The printer test table was removed from D1.1 due to Comment number #xxx from the D1.2 circulation. The numbering of the pages will be corrected without adding the printer test table.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 00	Page 1 of 19
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 0	3/10/2015 6:10:16 PM
SORT ORDER: Clause, Subclause, page, line		

<i>CI</i> 00 Grow. Bob	SC 00	-	1 G Consult	L1	# 81	C/ 01 Chini, Ahm	SC ·	1.4		P 17 Broadcom	L 21	# 45
,				ing		- ,			Comment			
ballot co SuggestedR Replace	ge still indicate omment #131 i <i>Remedy</i> e 802.3-2012 tl	indicated the amend	endment t ment will t (title pag	be to 802.3-2015 e headers etc.)	with 802.3-20xx which	examp be 1.4 It was	ect subc le, "cod .157 in correct	le-group" page 18	mber for the tir ' should be 1.4 line 30. Need to fix all	tle from page 1 .142 in page 1	8 line 21 and the	e 19 line 10. For e "Control mode" should o page 19 line 10
is the co on page		ndication of a yet to l	be approv	ed standard or 8	02.3-201x as appears	Suggested	0					
Proposed Re	esponse	Response Status	s W			Chang	e "1.4.1	65 Cont		.142 code-grou .4.157 Control ng to D1.2.		
See the	response to c	omment #21.				Proposed I	Respon	se	Response S	Status W		
C/ 00	SC 00		12	L1	# 82	PROP	OSED /	ACCEPT	IN PRINCIPL	Ε.		
Grow, Bob	00 00		G Consult	-	π 02	Chang	e subcl	ause nur	nbers to			
page nu S <i>uggestedR</i> Somethi	mber. Initial b Remedy ing in the front	page 12 thus contin pallot comment #198 matter is forcing the 2.3 convention of co	was not page nu	properly impleme mber perhaps a	nted. TOC problem. Fix it	1.4.31 1.4.31 1.4.31	3 Physi 4 Physi 5 Physi	cal Codir cal Layer			er:	
Proposed Re PROPO	,	Response Status	s W			1.4.35 1.4.37 1.4.38	0 retrair 7 Start- 0 symbo	ning: of-Strear ol:	n Delimiter (SS	SD):		
Numberi	ing will be fixe	d				1.4.38	2 symbo	ol period: ol rate (S	R):			
<i>CI</i> 00 Anslow, Pete	SC 1.4.x	P Ciel	20 na	L 29	# 1	1.4.38	5 ternar	y symbo	l:			
Comment Ty comma	•	Comment Statu EE Std 802.3 96.4.4			EZ							
SuggestedR Change	Remedy to "IEEE Std :	802.3, 96.4.4"										
Proposed Re	esponse SED ACCEP1	Response Status	s W									

C/ 01 SC 1.4

C/ 01 SC 1.4.165	P 18	L 30	# 3	C/ 01 SC 1.4.326	P 19	L 21	# 58
Anslow, Pete	Ciena			Estes, Dave	Spirent Comr	nunicatio	
inserted as 1.4.162.	Comment Status D D2.1 an additional definition fo This has had the effect of incre I.4.162 and higher by one.			SuggestedRemedy	Comment Status D	65 and Clause 66	6.
subclause numbers a This will result in "1.4	.165 Control mode" becoming	"1.4.166 Contro		Proposed Response PROPOSED ACCEPT.			
"1.4.397 ternary symt Proposed Response PROPOSED ACCEP	ool" becoming "1.4.398 ternary Response Status W T.	y symbol".		C/ 01 SC 1.4.x Anslow, Pete Comment Type E	P 20 Ciena Comment Status D	L 16	# 4
C/ 01 SC 1.4.171 Chini, Ahmad Comment Type ER TXD<3:0> should be SuggestedRemedy	P 18 Broadcom Comment Status D reffered to as nibbles, not octe	L 48 ets.	# 51	SuggestedRemedy	4 the colon at the end of the r 4B/3B and SYMB_ID to be <i>Response Status</i> W		ed should be bold.
Change "octets" to "n Proposed Response	Response Status W			C/ 01 SC 1.4.x Anslow, Pete	P 20 Ciena	L 16	# 6
PROPOSED ACCEP C/ 01 SC 1.4.325 Estes, Dave		L 12 municatio	# 57		Comment Status D v definitions should be define they go and they should be enced.		
Comment Type E Type, "lause" should SuggestedRemedy Change "lause" to "C Proposed Response PROPOSED ACCEP	lause" Response Status W		EZ	Change "1.4.x 4B/3B" t Change "1.4.x FORCE Change "1.4.x SYMB_7 Give each new definitio instruction for 100BASE	mode" to "1.4.221a FORCE D:" to "1.4.392a SYMB_1D: n its own Insert editing instru	mode" " uction. For exam	•
				Proposed Response PROPOSED ACCEPT.	Response Status W		

C/ 01 SC 1.4.x

C/ 01 SC 1.4.x P 20	L 19	# 59	C/ 0	I SC	: 1.5	P 20	L 36	# 7
Estes, Dave Spirent	Communicatio		Ansle	w, Pete		Ciena		
Comment Type E Comment Status E)		EZ Com	ment Type	Е	Comment Status D		
Typo, remove "the" before "100BASE-T1						n 1.5 of 802.3 is that the expan	nsion of abbrevi	iations use all lower
SuggestedRemedy						e the term is a proper noun. romagnetic and crosstalk are o	ne word each r	not two.
Change "technique used by the 100BASE-T1"	to "technique used by	100BASE-T1"				2.org/3/WG_tools/editorial/req		
Proposed Response Response Status V	v		Sugg	estedReme	edy			
PROPOSED ACCEPT.				-	expansion	is to lower case (except for FE	XT and NEXT).	
C/ 01 SC 1.4.x P 20	L 25	# 5		Change: Electro Mar	nnetic" to "	electromagnetic"		
nslow, Pete Ciena	23	# 0		Band Width	" to "band	width"		
comment Type E Comment Status D			F7	Cross Talk'		alk"		
In the definition "1.4.x SYMB_1D", 96.2.5.1 an			– Prop	osed Respo		Response Status W		
SuggestedRemedy			ſ	ROPOSED	ACCEPT			
Make 96.2.5.1 and 96.2.6.1 cross-references			C/ 0	I SC	: 1.5	P 20	L 39	# 60
proposed Response Response Status V	M		Este	, Dave		Spirent Comm	unicatio	
PROPOSED ACCEPT.	v		Com	ment Type	Е	Comment Status D		
				lectromagr	netic is one	e work		
C/ 01 SC 1.4xx P19	L 27	# 77	Sugg	estedReme	edy			
nompson, Geoff GraCaS	il S.A.		(hange "Ele	ectro Magr	etic" to "Electromagnetic"		
Comment Type ER Comment Status E	·		Prop	osed Respo	onse	Response Status W		
The new definition of FORCE mode is too spe It is a function that might well be used in any s		is very likely to be	Ĩ	ROPOSED	ACCEPT	IN PRINCIPLE.		
used for 1000BASE-T1. Change the wording t	o make it more genera	ally applicable. With		on the rest	onco to o	omment #7.		
that change I don't believe that the specific cla	ause reference is requ	ired or appropriate.						
uggestedRemedy			C/ 0		: 1.5	P 20	L 46	# 61
Change wording to read: FORCE mode is a PHY initialization procedure	used for manual con	figuration of MASTER	_	, Dave		Spirent Comm	unicatio	
SLAVE assignment to achieve link acquisition			Com	ment Type	E	Comment Status D		
MASTER-SLAVE assignment.			ł	Bandwidth is	s one word	1		
roposed Response Response Status V	v			estedReme	•			
PROPOSED ACCEPT.			I	n the definit	ions for R	BW and VBW, change "Band V	Vidth" to Bandv	vidth"
			,	osed Respo		Response Status W		
			ł	ROPOSEE	ACCEPT	IN PRINCIPLE.		
				See the resp				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 01

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 1.5

 SORT ORDER: Clause, Subclause, page, line
 SC 1.5
 SC 1.5

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C/ 01 SC 1.5 P 20 L 50	# 62	C/ 30 SC 30.5.1.1.4 P L # 85
Estes, Dave Spirent Communicatio		Grow, Bob RMG Consulting
Comment Type E Comment Status D Crosstalk is one word		Comment Type ER Comment Status D The editing instruction still is not precise. Where in the paragraph.
SuggestedRemedy Change "Cross Talk" to "Crosstalk" Proposed Response Response Status W		SuggestedRemedy Indicate insert point in the paragraph. For example insert after the 100BASE-TX etc. sentence.
PROPOSED ACCEPT IN PRINCIPLE.		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
See the response to comment #7.		Change
C/ 30 SC 30.3.2.1.2 P 21 L 11 Grow, Bob RMG Consulting	# 84	"Insert into the third paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.4 as follows:"
Comment Type ER Comment Status D The editing instruction still is not precise.		to "Insert into the third paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.4 after the second sentence as follows:"
SuggestedRemedy Indicate insert point in the list. For example, insert after the 100BAS	E-T2 line.	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		
Change "Insert entry in APPROPRIATE SYNTAX as follows:" to "Insert entry in APPROPRIATE SYNTAX as follows and insert entry	below 100BASE-T2:"	

C/ 30 SC 30.5.1.1.4

C/ 30 SC 30.5.1.1.4 P 21 L 45 # 78	C/ 45 SC 2.1.131 P 24 L 12 # 30
Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Where it says: 30.5.1.1.4 aMediaAvailable Insert into the third paragraph in BEHAVIOUR DEFINED AS section of 30.5.1.1.4 as follows:	Wu, Peter Marvell Semiconducto Comment Type TR Comment Status change RW to R/W D SuggestedRemedy Change RW to R/W
BEHAVIOUR DEFINED AS: For 100BASE-T1 PHYs the enumerations match the states within the link monitor state diagram Figure 96-17. In Figure 96-17 (which is on page 58). The states specifically are:	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See response to comment #10.
LINK DOWN HYSTERESIS LINK UP	C/ 45 SC 45.2.1.10 P 23 L 27 # 9 Anslow, Pete Ciena
None of these match any of the existing syntax enumerations. Are we supposed to create new (and redundant) enumerations just because you have not defined the mapping? If so then these have not yet been specified. If we are supposed to map the state labels list above to existing syntax enumerations then the mappings need to be defined definitively and explicitly. SuggestedRemedy My guesses would be that: LINK DOWN would map to: not available HYSTERESIS would map to: other or unknown (I'm not sure pick one)	Comment Type E Comment Status D EZ The table for PMA/PMD extended ability register bit definitions should be Table 45-14 rather than Table 45-13 EZ SuggestedRemedy Change to Table 45-14 Response Status W Proposed Response Response Status W PROPOSED ACCEPT. EZ EZ
LINK UP would map to: available Appropriate insertion text should be generated by the CRG so that the final text is not up to the editor. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Map link_status FAIL > Not Available	
OK > Available CL30 pg 434 (5.1.1.4?) Behaviour defines as For 100BASE-T1, a link_status value of FAIL maps to the enumeration not available. A value of link_status of OK maps to the enumeration available. Reference 96.4.7.1.	

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

C/ 45 SC 45.2.1.10 Page 6 of 19 3/10/2015 6:10:17 PM

C/ 45 SC 45.2.1.10 P 23 L 38 # 8	C/ 45 SC 45.2.1.131 P 24 L 16 # 10					
Anslow, Pete Ciena	Anslow, Pete Ciena					
Comment Type TR Comment Status D	Comment Type E Comment Status D					
In register 1.11, there are only 5 reserved bits remaining. In order to make the bes the remaining bits, recent projects have used them to "point" to another register for individual PMD ability bits.						
For example: bit 1.11.9 is "P2MP ability" pointing to register 1.12 where there are 10 PMD ability	SuggestedRemedy					
bit 1.11.10 is "40G/100G extended abilities" pointing to register 1.12 where there are 101 MD ability PMD ability bits						
	Proposed Response Response Status W					
At an informal discussion between the editors of various current 802.3 projects, a suggested allocation of bit 1.11.11 to "BASE-T1 extended	PROPOSED ACCEPT.					
abilities" was made which would indicate that the PMD ability bits can be found in r 1.18 "BASE-T1 PMA/PMD extended ability"	egister C/ 95 SC 96.5.1.1 P 58 L 17 # 71					
This will enable additional "T1" PMDs without using up more bits in register 1.11.	Dawe, Piers Mellanox					
uggestedRemedy	Comment Type TR Comment Status D					
In Table 45-13, change the inserted row to: Bit(s): 1.11.11 Name: BASE-T1 extended abilities	This says "The sensitivity of the PMA's receiver to radio frequency CM RF noise shall be tested according to". This isn't a test spec: an 802.3 standard specifies what a thing ha to do, not how to make it do it. It's OK to require that a thing should pass a test if or when tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway. There is an equivalent problem in 96.5.1.2.					
Description: 1 = PMA/PMD has BASE-T1 extended abilities listed in register 1.18 0 = PMA/PMD does not have BASE-T1 extended abilities	tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway.					
 1 = PMA/PMD has BASE-T1 extended abilities listed in register 1.18 0 = PMA/PMD does not have BASE-T1 extended abilities Change the title and content of 45.2.1.10.a to: 45.2.1.10.a BASE-T1 extended abilities (1.11.11) When read as a one, bit 1.11.11 indicates that the PMA/PMD has BASE-T1 extended abilities listed in register 1.18. When read as a zero, bit 1.11.11 indicates that the PMA/PMD does not have BASE-T1 extended abilities. Insert a new subclause 45.2.1.14b and subclauses after 45.2.1.14 for register 1.18 	tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway. There is an equivalent problem in 96.5.1.2. SuggestedRemedy Change: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall be tested according to to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the					
1 = PMA/PMD has BASE-T1 extended abilities listed in register 1.18 0 = PMA/PMD does not have BASE-T1 extended abilities Change the title and content of 45.2.1.10.a to: 45.2.1.10.a BASE-T1 extended abilities (1.11.11) When read as a one, bit 1.11.11 indicates that the PMA/PMD has BASE-T1 extended abilities listed in register 1.18. When read as a zero, bit 1.11.11 indicates that the PMA/PMD does not have BASE-T1 extended abilities.	tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway. There is an equivalent problem in 96.5.1.2. SuggestedRemedy Change: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall be tested according to to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the specifications of ??? if tested according to					
 1 = PMA/PMD has BASE-T1 extended abilities listed in register 1.18 0 = PMA/PMD does not have BASE-T1 extended abilities Change the title and content of 45.2.1.10.a to: 45.2.1.10.a BASE-T1 extended abilities (1.11.11) When read as a one, bit 1.11.11 indicates that the PMA/PMD has BASE-T1 extended abilities listed in register 1.18. When read as a zero, bit 1.11.11 indicates that the PMA/PMD does not have BASE-T1 extended abilities. Insert a new subclause 45.2.1.14b and subclauses after 45.2.1.14 for register 1.18 similar was as for register 1.13. Proposed Response Response Response Status W 	tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway. There is an equivalent problem in 96.5.1.2. SuggestedRemedy Change: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall be tested according to to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the specifications of ??? if tested according to Or if the spec limits are in the same document, it may be possible to simplify this to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the specifications given in					
 1 = PMA/PMD has BASE-T1 extended abilities listed in register 1.18 0 = PMA/PMD does not have BASE-T1 extended abilities Change the title and content of 45.2.1.10.a to: 45.2.1.10.a BASE-T1 extended abilities (1.11.11) When read as a one, bit 1.11.11 indicates that the PMA/PMD has BASE-T1 extended abilities listed in register 1.18. When read as a zero, bit 1.11.11 indicates that the PMA/PMD does not have BASE-T1 extended abilities. Insert a new subclause 45.2.1.14b and subclauses after 45.2.1.14 for register 1.18 similar was as for register 1.13. Proposed Response Response Response Status W 	tested, which is actually what matters, but not to require the testing. I expect testing each and every PMA's receiver would not be cost-effective anyway. There is an equivalent problem in 96.5.1.2. SuggestedRemedy Change: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall be tested according to to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the specifications of ??? if tested according to Or if the spec limits are in the same document, it may be possible to simplify this to: The sensitivity of the PMA's receiver to radio frequency CM RF noise shall meet the specifications given in Make a similar change in 96.5.1.2 Proposed Response Response Status ₩					

C/ 95 SC 96.5.1.1

		/	"	<u></u>			"		
C/ 96 SC 1.2 Wu, Peter	P 28 Marvell Semic	L 32	# 31	C/ 96 SC 2.1.2. Wu, Peter	1 P 30 Marvell Sem	L 47	# 28		
Comment Type E missing space Clause 22MII SuggestedRemedy Change to "Clause 22 MII	Comment Status D I" Response Status W	onducto		Comment Type TR PMA_LINK.indicati READY, OK or FAI However the value diagram SuggestedRemedy Delete the value RI	Comment Status D on (link_status) is defined with tl L READY is never assigned in Fig EADY from the definition.	nree possible val			
See the response to com	ment #12			Proposed Response PROPOSED ACCE	Response Status W				
Cl 96 SC 2 P 32 L 1 # 26 Wu, Peter Marvell Semiconducto Comment Type TR Comment Status D Figure 96-3-100BASE-T1 PHY interfaces in draft 1.3 "Technology Dependent Interface" was changed to "Technology Dependent Interface (Clause 28)"				Use commenters suggested remedy. Additionally, Change "The link_status parameter can take on one of three values: FAIL, READY, or OK." to "The link_status parameter can take on one of two values: FAIL or OK."					
pairs.	bes not interface to Clause 2	28 which require	s two twisted	C/ 96 SC 3 Wu, Peter	P 53 Marvell Sem	L 1 iconducto	# 33		
uggestedRemedy Remove reference to Cla	use 28.			Comment Type TR	Comment Status D				
Proposed Response PROPOSED ACCEPT.	Response Status W	00.0 and 00.1	2	No PCS loopback is normatively required. At D1.3, an internal loopback was list at 96A.1 set as informative . We understand the loopback is not required at normal mode, but it is very useful for host side debug. And MII and GMII do have a register bit for it and have PCS loopback					
Remove the "Clause 28"	reference from Figure 96-2	, 96-3, and 96-13	3.	SuggestedRemedy					
					96.3.4 as PCS management, ar section. Use Register bit 3.0.14 de.				
				Proposed Response	Response Status W				
				PROPOSED ACCE	EPT IN PRINCIPLE.				

see comment #37.

CI 96 SC 3

C/ 96 SC 3.3.4	P 52	L 18	# 29	C/ 96	SC 95.5.3	P 61	L 14	# 13
Wu, Peter	Marvell Semi	conducto		Anslow, P	ete	Ciena		
Comment Type TR	Comment Status D			Comment	Туре Е	Comment Status D		EZ
	changes the sign of its transmi			In Fig	ures 96-18 and	96-19 "10K O" should be "10 k	O" where "O" sta	ands for capital omega
	uirement on the transmitter pla ggestion? Is this normative or		marked	Suggested	Remedy			
SuggestedRemedy	33			In Fig	ures 96-18 and	96-19, change "10K O" to "10	kO" where "O" st	ands for capital omega
Change text to:				Proposed	Response	Response Status W		
"Furthermore, it shall	invert its transmitted signals (1	ʿAn, TBn)."		PROF	OSED ACCEP	Г.		
Proposed Response	Response Status W			C/ 96	SC 96.1.1	P 27	L 18	# 42
PROPOSED ACCEP	Т.			Chini, Ahn	nad	Broadcom		
C/ 96 SC 4.7.1	P 56	L 46	# 27	Comment	Туре Е	Comment Status D		EZ
Wu, Peter	Marvell Semio	conducto		"100m	s" should be "1	00 ms"		
Comment Type TR	Comment Status D			Suggested	Remedy			
link_status is defined	with three possible values: RE	ADY, OK or FAI	L	Chang	ge "100ms" to "1	00 ms" on page 27 line 18		
diagram.	EADY is never assigned in Fig	ure 96-17-Link N	Ionitor state	Proposed	Response	Response Status W		
SuggestedRemedy				PROF	OSED ACCEP	Г.		
00 ,	DY from the definition.			C/ 96	SC 96.1.1	P 28	L1	# 11
Proposed Response	Response Status W			Anslow, P		Ciena		<i>"</i>
PROPOSED ACCEP	T.			Comment	Tvpe E	Comment Status D		
C/ 96 SC 6	P 67	L 24	# 32	_	51	not included a list of objective	s such as in 96.1	.1, so preferably
Wu, Peter	Marvell Semi		# 52	remov	e it.			
Comment Type TR	Comment Status D					O16750" should be "ISO 1675	0" and there sho	ould be an entry in the
21	ister space was defined for the	100BASE-T PH	IY, 1.2100 to			1.3 added for it		
	which previously defined regis			Suggested	•			
SuggestedRemedy	llso apply or do not apply to 10	UDASE-11.		Either	: e 96.1.1			
	Clause 45 registers associated	with 100BASE-T	-1	or:				
Proposed Response	Response Status W			chang addeo		"ISO 16750" and add an entr	y in the reference	es subclause 1.3
PROPOSED REJECT	,				Response	Response Status W		
				•		T IN PRINCIPLE.		
CL96 uses all CL45 re such a table.	egisters that are not PMD spec	cific. No other PN	MD clauses specify	Dama	06.1.1			
				Kemo	ve 96.1.1			

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

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C/ 96 SC 96.1.		L 16	# 25	C/ 96		6.1.2	P 28	L 33	# 12	
Iwaoka, Mitsuru	Yokogawa El	ectric Cor		Anslow, P	ete		Ciena			
Comment Type T ISO16750 is refere	Comment Status D ed here, but not listed in 1.3 nor A	nnex.A.		Comment Space		E in "Claus	Comment Status D e 22MII"			
	ment to Annex.A, and insert the	references to the	se documents after	Suggested Chang		/ ause 22 N	111"			
	e 28, line 16. :2012, Road vehicles Environn ronic equipment Part 2: Electri		and testing for	Proposed PROP	'	SE ACCEPT.	Response Status W			
	:2012, Road vehicles Environn ronic equipment Part 3: Mecha		and testing for	<i>Cl</i> 96 Anslow, P	-	6.10.4.1	P 73 Ciena	L 31	# 16	
Proposed Response PROPOSED REJE See comment #11	Response Status W				11.	E omment c	Comment Status D olumns of the various PICS	tables, the entry sh	ould start with	<i>EZ</i> a
C/ 96 SC 96.1. Chini, Ahmad	Broadcom	L 31	# 52	a capi	the first l ital letter.	letter of th	e entry in the Value/Comme	nt columns of the v	arious PICS tal	bles
Comment Type ER Typo in the text.	Comment Status D			Proposed PROP	Respons POSED A		Response Status W			
SuggestedRemedy Change "100BASE	E-T1" to "100BASE-TX"			<i>Cl</i> 96 Anslow, P	-	6.10.4.2	Р 75 Сіепа	L 6	# 17	
Proposed Response PROPOSED ACC	Response Status W EPT.				PCR1 has		Comment Status D Jure 96–10a and Figure 96–7			EZ
C/ 96 SC 96.1. Amason, Dale	2 P 27 Freescale	L 32	# 65	Suggested	dRemedy	/	be: "See Figure 96–10a and 96–10a and Figure 96–10b"			
Comment Type E Need space betwe	Comment Status D en Clause 22 & MII			Proposed	-	se	Response Status W			
SuggestedRemedy Change "Clause 2	2MII" to "Clause 22 MII"			1 101						
Proposed Response PROPOSED ACC	Response Status W EPT IN PRINCIPLE.									
See the response										

C/ 96 SC 96.10.4.2

7 96 SC 96.10.4.4 hompson, Geoff	P 75 GraCaSI S.A.	L 40	# 79	<i>Cl</i> 96 Chini, Ahmac	SC 96.3.1.1		P 49 Broadcom	L 47	# 44
Comment Type TR PME6 There should be s Value/Comment field of th uggestedRemedy Add text something like: Value of "N" used ()		ord the value "N	" used in the	mii_fc_er pcs_rx_e pcs_rx_d receiving	value definitior r (line 47) r (line 50) v (line 51)	Comment S for Variables b 50, line 1)	_		
Proposed Response F PROPOSED ACCEPT IN Editors Note: Modify CL96 a minimum N value of 34.	-	s of repeating 1	s can be achieved with	2. at pag 3. at pag 4. at pag	e 49 line 47, ir e 49 line 50, ir e 49 line 51, ir e 49 line 53, ir	nsert "Values: - nsert "Values: - nsert "Values: -	IRUE or FALSE IRUE or FALSE IRUE or FALSE IRUE or FALSE	E" E" E"	
21	P 77 Ciena Comment Status D	L 14	# <u>19</u> EZ	Proposed Re PROPOS		Response S	RUE or FALSE' tatus W		
The +/- symbol should not uggestedRemedy Move the +/- symbol to the		pm"		C/ 96 Chini, Ahmac	SC 96.3.1.1		P 50 Broadcom	L 4	# 47
roposed Response F PROPOSED ACCEPT.	Response Status W			Comment Ty, typo for s SuggestedRe Change "sychron to	ychronous emedy	Comment S	tatus D		
				"synchro	nous"				

PROPOSED ACCEPT.

C/ 96 SC 96.3.2.2	P 38	L 39	# 46	C/ 96 SC 96.3.2.3.		L 23	# 64
Chini, Ahmad	Broadcom			Estes, Dave	Spirent Con	nmunicatio	
Comment Type ER	Comment Status D			Comment Type E	Comment Status D		
keep consistent forma	t for value of ternary symbol				ned in the proper place. RAr ymb_vector, and RXD are not appreciate the properties of the properties		
SuggestedRemedy				_ · _ ·			
Change				SuggestedRemedy Move or remove these	definitions		
"(–1, 0, 1)" to							
"{-1, 0, or 1}"				Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCEPT	IN PRINCIPLE.		
PROPOSED ACCEPT	Г.				emove "RAn" definition.		
C/ 96 SC 96.3.2.2	.2 P 39	L 26	# 63		nd 51: Remove "rem_rcvr_st nd 53: remove "rxerror_statu		
Estes, Dave	Spirent Comm		# 05	4) Page 42 line 1 and 2	2, move "RX_DV" and "RX_	ER" definitions to	page 49 line 35.
Comment Type TR	Comment Status D				ve "RXD" definition to page d 5, move "rx_symb_vector"		o EQ line 2
зопшиени туре тк				0) Fage 42 line 5,4 and	u 5, move TX_Symb_vector	demnition to pag	e 50 line 5.
The word "packet" wa	s incorrectly changed to "frame	" The difference	co botwoon o nackot	, 0	-		
	s incorrectly changed to "frame ed in Subclause 3.1.1 Figure 3			C/ 96 SC 96.3.2.3.	.3 P 43	L 42	# 53
and a frame is illustrat SFD. This is significa	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff	B-1. A packet in bits need to be a	cludes Preamble and		3 P 43 Spirent Con		# 53
and a frame is illustrat SFD. This is significa	ed in Subclause 3.1.1 Figure 3	B-1. A packet in bits need to be a	cludes Preamble and	Cl 96 SC 96.3.2.3. Estes, Dave			# 53
and a frame is illustrat SFD. This is significa number of bits in a pa	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff	B-1. A packet in bits need to be a	cludes Preamble and	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E	Spirent Con Comment Status D	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus	3-1. A packet in bits need to be a iple of 3.	cludes Preamble and added when the	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E	Spirent Con	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa <i>SuggestedRemedy</i> Change all instances 96.3.3.1, 96.3.3.2, and	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5.	3-1. A packet in bits need to be a iple of 3.	cludes Preamble and added when the	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy	Spirent Con Comment Status D	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus 1 96.3.3.5. <i>Response Status</i> W	3-1. A packet in bits need to be a iple of 3.	cludes Preamble and added when the	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy	Spirent Con Comment Status D CD belongs in the Receive I	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10,	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for	Spirent Con Comment Status D CD belongs in the Receive I RSPCD to Subclause 96.3. Response Status W	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39	3-1. A packet in bits need to be a iple of 3.	cludes Preamble and added when the	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W	nmunicatio Function definitior .3.1.3)
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.3 Amason, Dale	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	added when the 6.3.2.3, 96.3.2.4.10,	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4	Spirent Con Comment Status D CD belongs in the Receive F RSPCD to Subclause 96.3. Response Status W	nmunicatio	
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT C/ 96 SC 96.3.2.3 Amason, Dale Comment Type E	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale <i>Comment Status</i> D	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W P 43 Freescale	nmunicatio Function definitior .3.1.3	# [67
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT C/ 96 SC 96.3.2.3 Amason, Dale Comment Type E	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale Comment Type E	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W P 43 Freescale Comment Status D	nmunicatio Function definition .3.1.3 <i>L</i> 34) # [67 E
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT C/ 96 SC 96.3.2.3 mason, Dale Comment Type E Figures 96-6a, 96-6b, SuggestedRemedy	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale <i>Comment Status</i> D 96-6c should follow subclause	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale Comment Type E Figure 96-8 is drawn w	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W P 43 Freescale	nmunicatio Function definition .3.1.3 <i>L</i> 34) # [<u>67</u>
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT C/ 96 SC 96.3.2.3 Amason, Dale Comment Type E Figures 96-6a, 96-6b,	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale <i>Comment Status</i> D 96-6c should follow subclause	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale Comment Type E Figure 96-8 is drawn w (Helvetica/Arial).	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W P 43 Freescale Comment Status D	nmunicatio Function definition .3.1.3 <i>L</i> 34) # [<u>67</u>
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.3 Amason, Dale Comment Type E Figures 96-6a, 96-6b, SuggestedRemedy Move figures to follow	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale <i>Comment Status</i> D 96-6c should follow subclause	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale Comment Type E Figure 96-8 is drawn w (Helvetica/Arial). SuggestedRemedy	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W C P 43 Freescale Comment Status D vith different type face (Time	nmunicatio Function definition .3.1.3 <i>L</i> 34 es Roman) than ot) # [67 E
and a frame is illustrat SFD. This is significa number of bits in a pa SuggestedRemedy Change all instances 96.3.3.1, 96.3.3.2, and Proposed Response PROPOSED ACCEPT C/ 96 SC 96.3.2.3 Amason, Dale Comment Type E Figures 96-6a, 96-6b, SuggestedRemedy	ed in Subclause 3.1.1 Figure 3 nt in this clause because stuff cket (not a frame) is not a mult of frame to packet in Subclaus d 96.3.3.5. <i>Response Status</i> W T. <i>P</i> 39 Freescale <i>Comment Status</i> D 96-6c should follow subclause subclause 96.3.2.2.2 <i>Response Status</i> W	3-1. A packet in bits need to be a iple of 3. es 96.3.2.2.2, 90	cludes Preamble and added when the 6.3.2.3, 96.3.2.4.10, # <u>66</u>	Cl 96 SC 96.3.2.3. Estes, Dave Comment Type E The definition for RSP SuggestedRemedy Move the definition for Proposed Response PROPOSED ACCEPT Cl 96 SC 96.3.2.4 Amason, Dale Comment Type E Figure 96-8 is drawn w (Helvetica/Arial). SuggestedRemedy	Spirent Con Comment Status D CD belongs in the Receive R RSPCD to Subclause 96.3. Response Status W P 43 Freescale Comment Status D	nmunicatio Function definition .3.1.3 <i>L</i> 34 es Roman) than ot) # [67 E

C/ 96 SC 96.3.2.4 C/ 96 SC 96.3.2.4.2 P 44 L 42 # 36 C/ 96 SC 96.4.2 P 55 L 24 # 18 Zimmerman, George CME Consulting, Inc. Anslow. Pete Ciena Comment Status D Comment Status D F7 Comment Type TR Comment Type Е Shall statement is ill defined. States "shall conform to the encoding rules, when applicable, As 45.2.1.7.4 is in the draft, this should be a cross-reference rather than green text. from 40.3.1.3.2 and 40.3.1.3.3", but doesn't address when they are applicable, or what the condition is. Same issue for: 45.2.1.7.5 in 96.4.3 (Page 55, line 47) SuggestedRemedy 45.2.1.7.4 in 96.10.4.3 (Page 75, line 31) Delete "when applicable". 45.2.1.7.5 in 96.10.4.3 (Page 75, line 34) (alternatively, specify the excluded cases) Figure 96-16 in 96.10.4.3 (Page 75, line 36) Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Change: 45.2.1.7.4 in 96.4.2 (Page 55, line 24) Remove "when applicable". 45.2.1.7.5 in 96.4.3 (Page 55, line 47) 45.2.1.7.4 in 96.10.4.3 (Page 75, line 31) C/ 96 P 53 # 68 SC 96.4.1 L4 45.2.1.7.5 in 96.10.4.3 (Page 75, line 34) Amason. Dale Freescale Figure 96-16 in 96.10.4.3 (Page 75, line 36) to cross-references Comment Type Ε Comment Status D ΕZ Proposed Response Response Status W Clause 28 referenced in Figure 96-13 is not highlighted in green as in other figures. PROPOSED ACCEPT. SuagestedRemedv Update figure to be consistent with other figures. C/ 96 P 56 SC 96.4.7.1 L 40 # 56 Estes. Dave Spirent Communicatio Proposed Response Response Status W PROPOSED REJECT. Comment Type **T** Comment Status D The definitions for the varibles tx_enable should not have been deleted. These variables The Clause 28 reference is deleted per comment #26. are set by the PCS and used by the PMA. See the similar defitions in Clause 40 as a reference. SuggestedRemedy Add the definition for tx enable Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Page 57 line 38, add the following definition: "tx enable

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The tx_enable parameter generated by PCS Transmit as shown in Figure 96-8. Values: TRUE or FALSE."

C/ 96 SC 96.4.7.1

C/ 96 SC 96.4.7.1 P 56 L 40 # 55 Estes, Dave Spirent Communicatio	C/ 96 SC 96.4.7.1 P 58 L 35 # 54 Estes, Dave Spirent Communicatio
Comment Type T Comment Status D The definitions for the varibles config and tx_mode should not have been deleted. The variables are set by the PMA and used by the PCS. See the similar defitions in Claus as a reference. SuggestedRemedy Add the definitions for config and tx_mode. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type E Comment Status D The "NOT_OK" value for scr_status was deleted SuggestedRemedy Add the "NOT_OK" value for scr_status. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Page 57 line 38, insert
1) Page 55 line 41, add the following definition: "config The PMA shall generate this variable continuously and pass it to the PCS via the	"NOT_OK: The descrambler is not synchronized." <i>Cl</i> 96 SC 96.5.1 <i>P</i> 8 <i>L</i> 8 # 72 Dawe, Piers Mellanox
 PMA_CONFIG.indication primitive. Values: MASTER or SLAVE" 2) Page 57 line 38, add the following definition: "tx_mode PCS Transmit sends code-groups according to the value assumed by this variable. Values: SEND_N: This value is continuously asserted when code-group sequences representing a PCS code-group in PCS transmit function, control information, or idle n are transmitted. SEND_I: This value is continuously asserted when transmission of sequences of code groups representing the idle mode is to take place. SEND_Z: This value is asserted when transmission of zero code-groups is to take place. 	Comment Type TR Comment Status D This says "A system integrating the 100BASE-T1 PHY shall comply with applicable local and national codes, or as agreed between customer and supplier, for the limitation of electromagnetic interference." I don't believe that's feasible: this is supposed to be a standard, not a procurement spec nor an offer for sale. No "customer" or "supplier" are identified. All the standard can do is require what the system integrating the 100BASE-T1 PHY shall do, and it has to do that pretty much universally. In this case regional variations may be allowed, but those variations are public knowledge, and the same for all. Of course there can be particular customer requirements, but they must be outside this document.
C/ 96 SC 96.4.7.1 P 56 L 45 # 35 Zimmerman, George CME Consulting, Inc. CME Consulting, Inc. Inc	SuggestedRemedy Delete "or as agreed between customer and supplier" Also in 96.5.1.1 and 96.5.1.2.
Comment Type TR Comment Status D link_status values are inconsistent. This section says it is READY, OK or FAIL, subcla 96.2.1.2 also says READY, OK or FAIL, 96.3.2.3.1 says READY or OK (no FAIL), and state diagrams show the value READY being set.	Pronosed Response Posponse Status W
State diagrams show the value READT being set. SuggestedRemedy Delete READY value in 96.4.7.1 and 96.2.1.2 (alternatively, provide state diagram where ready is set) Proposed Response Response Status W	Suppliers must be aware that OEMs may have requirements that go beyond local and national codes.
PROPOSED ACCEPT IN PRINCIPLE. See responses to comments #27 & #28.	

C/ 96 SC 96.5.1

C/ 96 SC 96.5.3 P 59 L 38 # 80 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraC	C/ 96 L 37 # 73 Dawe, Piers Mellanox MellanoX
Comment Type ER Comment Status D The text: "There may be passive components between PHY and MDI as long as 100BASE-T1 PHY transmitter specification compliance can be attained at the MDI."	Comment Type TR Comment Status D This isn't a test spec so it can't say that any test fixture "shall be used". SuggestedRemedy
would seem to imply that the PHY contains no passive components and is fully encompassed within a silicon chip. Such is not the case. The PHY is everything behind the MDI until you get to the next layer up. Whether or not a portion is encompassed within the chip(s) is an implementation decision.	In "The fixtures shown in Figure 96–18, Figure 96–19, and Figure 96–20, or their equivalents, shall be used", change "shall" to "are". Doing so doesn't weaken compliance because there is another "shall" in 96.5.4 and more in e.g. 96.5.4.1, but you could have text in 96.5.4 like: The transmitter shall meet the requirements of this section if measured with the appropriate test fixture specified in 96.5.3.
uggestedRemedy The 100BASE-T1 PHY transmitter specification compliance point is at the MDI. or just delete the sentence entirely.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Change "shall be" to "are".
Remove "There may be passive components between PHY and MDI as long as 100BASE-T1 PHY transmitter specification compliance can be attained at the MDI."	Text will read as "The fixtures shown in Figure 96–18, Figure 96–19, and Figure 96–20, or their equivalents, are used"
/ 96 SC 96.5.3 P 60 L 37 # 74 awe, Piers Mellanox	C/ 96 SC 96.5.3 P 61 L 10 # 69 Amason, Dale Freescale
omment TypeTRComment StatusDWe don't give tolerances for VNA impedance, voltage limits and so on. This case isn't different. Although +/-1% is good advice to a test fixture builder, it's not this standard's problem - because this isn't a test spec.See 1.2.6, Accuracy and resolution of numerical quantities "Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance."	Comment Type E Comment Status D EZ Figure 96-20 is drawn with Times Roman type instead of Helvetica. SuggestedRemedy EZ Redraw with Helvetica type to be consistent with other figures in document. Proposed Response Response Status W PROPOSED ACCEPT. W PROPOSED ACCEPT. EZ
<i>lggestedRemedy</i> If we don't give a tolerance, the limit is exact. We are saying what the e.g. droop should be if measured with an infinitely accurate test fixture as well as the infinitely linear voltmeter	C/ 96 SC 96.5.4.3 P 64 L 16 # 70 Amason, Dale Freescale
that's already implied in 96.5.4.1. Of course neither test fixture as well as the inimitely intear voltneter those doing the test know that and can give the tolerances of their measurements in test reports, if it matters.	Comment TypeEComment StatusDEZFigure 96-22 drawn with Times Roman font instead of Helvetica.
oposed Response	SuggestedRemedy Redraw figure to be consistent with other figures.
The text that the commenter is referring to was not changed in this draft. Your similar comment was responded in D1.2 (comment #599). That response is still valid.	Proposed Response Response Status W PROPOSED ACCEPT.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wri ORT ORDER: Clause, Subclause, page, line	

Cl 96 SC 96.5.4.3 Dawe, Piers	B P 64 Mellanox	L 48	# 75	C/ 96 Chini, Ahm	SC 96.5.4.4 ad	P 64 Broadcom	L 29	# 50
interval" This is off requirement - only the	Comment Status D er measurements, the RMS val topic, because this isn't a test e compliance is. The "shall" tha mode 2, JTXOUT shall be	spec and the me at the section ne	asurement is not a eds is already in place	Suggested	d is missing at t	Comment Status D ne end of sentence 4 line 29.		EZ
SuggestedRemedy Change: the RMS value shall b	be measured over an interval o	f not less than 1	ms	Proposed I PROP	Response DSED ACCEPT.	Response Status W		
to: the RMS value is defi	ined over an interval of not less	than 1 ms		<i>Cl</i> 96 Anslow, Pe	SC 96.5.4.4 te	P 65 Ciena	L 32	# 14
Proposed Response PROPOSED ACCEP Cl 96 SC 96.5.4.4		L 21				Comment Status D , 96-6, 96-7, 96-8, 96-9, 96-1	0, and 96-11 the	<i>EZ</i> ere are spaces missing
SuggestedRemedy	Broadcom Comment Status D puld be "pseudo-random", same		# 41 EZ 9 30.	numbe Proposed I	tions 96-4, 96-5 r and "MHz" for a	, 96-6, 96-7, 96-8, 96-9, 96-1 all instances per equation. <i>Response Status</i> W	0, and 96-11 ad	
Proposed Response PROPOSED ACCEP	Response Status W	-		C/ 96 Chini, Ahm		P 65 Broadcom Comment Status D	L 27	# 38
Cl 96 SC 96.5.4.4 Chini, Ahmad Comment Type TR There is an error in sw SuggestedRemedy Change "1> s" to ">1 Proposed Response PROPOSED ACCEP	Broadcom Comment Status D weep time. It says ">1 s", wher min" Response Status W	L 28 e it should have	# [<u>49</u>] said ">1 min"	Suggested Add ne Proposed I	g a limit on peak Re <i>medy</i> w sub clause 96	transmit signal level .5.4.6 on page 65 line 22 as <i>Response Status</i> W	given in chini_3	bw_09_032015.pdf
Change ">1 s" to ">60 s"								

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

C/ 96 SC 96.5.4.6 Page 16 of 19 3/10/2015 6:10:17 PM

CI 96	SC 96.5.5.3	P 66	L 45	# 34		C 96.5.6	P 67	L 22	# 37
immerman	, George	CME Consultin	ng, Inc.		Chini, Ahmad		Broadcom		
omment T	ype TR	Comment Status D			Comment Type	, T	Comment Status D		
		specified. Multiple defects e			There were	e suggestior	ns to make the loop back tests	s normative.	
		able is not specified (is it wors injection point to receive MDI			SuggestedRen	nedy			
error rat (frame e ternary	te is measured i error rate is)), Fu signal which doe	s not identified (note, general irther, reiterating earlier com es not adequately represent t	lly not defined fo ment, test would	or ethernet systems, I nominally produce a	remove An	nex 96A	n Annex 96A to page 67 line 2		
which p uggestedF		Gaussian noise.			2- For the read;	new sub cal	use "96.5.6 System level test	modes" modify	the fisrt sentence to
Fully sp location	ecify intended to of injection, fra	est, including specify transmis ne error rate and packet size ASE-T1 transceiver with gau	e at MAC/PLS se	ervice interface, and			Y shall support two loopback to but the need to have a link part		ssist the MAC in testin
level.					3- Extend t	he pics to ir	nclude support for these two te	est modes.	
roposed R	lesponse	Response Status W			4- Assian (Clause-45 re	egisters to enable these two te	est modes.	
PROPC	SED ACCEPT	N PRINCIPLE.			Proposed Res		Response Status W		
Page 66	6 line 1						IN PRINCIPLE.		
	receive DUT is	UT is connected to a 100BAS connected to a 100BASE-T1			Move mate	erial from 96	A to new subclause "96.5.6 L	oopback Testmo	odes".
Page 66 Add at t		raph " The noise is added at	MDI of the devic	ce under test."	Change "Ir	iternal Loop	back" to "Internally facing PC	S Loopback".	
"This s	pecification shal	R shall be less than 10–10." I be satisfied by a frame erro		10-7 for 125 octet	Change "E	xternal Loop	pback" to "Internally facing PM	IA Loopback".	
frames	measured at MA	C/PLS service interface."				first senten			
2/ 96 Inslow, Pet	SC 96.5.5.3	Р 67 Ciena	L 5	# 15			Y shall support two loopback to the need to have a link particular to		ssist the MAC in testin
Comment T		Comment Status D		EZ	Extend the	pics to inclu	ude support for these two test	modes.	
Figure	96-24 has some	text in block capitals			Assign Cla	use 45 regis	sters to enable these two test	modes.	
i iguio c	Remedy				Editor Add	tional obser	nyations:		
U		pital to normal case.			1. Curved	ines in both	figures are unnecessary and	should be remo	ved.
uggestedF	e text in block ca								
SuggestedF		Response Status W			2. Figure 9	6A-2 needs	a mux, like 96A-1		

C/ 96 SC 96.8.2.2 P 70 L 16 # 40 C/ 96 SC TOC P 12 1 # 48 Chini, Ahmad Broadcom Chini, Ahmad Broadcom Comment Type Comment Status D Comment Type Comment Status D т ER Missing a clause on MDI mode conversion loss Page 12 in the document is missing. SuggestedRemedy SuggestedRemedy Add new sub clause 96.8.2.2 on page 70 line 16 as given in chini_3bw_09_032015.pdf Renumber document pages. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. C/ 96 SC 96.8.3 P 70 L 17 # 39 See the response to comment #76. Chini, Ahmad Broadcom P 80 C/ 96A SC 96A L 1 # 20 Comment Type **T** Comment Status D Anslow. Pete Ciena Missing a clause on MDI fault tolerance Comment Type E Comment Status D ΕZ SuggestedRemedy Annex 96A has the wrong draft number and the wrong date in the header. (Of course, this would not happen if the method used in the 802.3 template had not been Add new sub clause 96.8.3 on page 70 line 17 as given in chini_3bw_09_032015.pdf changed.) Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Make the headers consistent throughout the draft. C/ 96 SC 96.9 P 70 L 21 # 43 Proposed Response Response Status W Broadcom Chini, Ahmad PROPOSED ACCEPT. Comment Type TR Comment Status D Editor to follow up with commenter to make sure the appropriate method is followed. Delay constraint for TX and RX path needs to be updated. C/ 99 SC P1 L 1 # 21 SuggestedRemedy Anslow. Pete Ciena Change "240 ns" to "360 ns" Change "780 ns" to "960 ns" Comment Type E Comment Status D F7 Proposed Response Response Status W The P802.3bw amendment will be an amendment to the result of the P802.3bx revision project. This is correctly reflected in the draft from page 17 onwards, but not in the PROPOSED ACCEPT. frontmatter or TOC SuggestedRemedy Change the base_year variable in the frontmatter and TOC files to 201x Proposed Response Response Status W

IEEE P802.3bw D1.3 100BASE-T1 1st Working Group recirculation ballot comments

PROPOSED ACCEPT.

Cl 99 Anslow, I	SC Pete	P 1 Ciena	-	L 37	# 22
Commen	t Type E	Comment Status IEEE Std 802.3xx-20xx pu		", the "802.3xx	" should be "802.3bw"
00	edRemedy nge "802.3xx	«" to "802.3bw"			
•	d Response POSED AC		w		
Cl 99 Anslow, I	SC Poto	P 1 Ciena		L 22	# 23
	21	t includes [complete]" shou	-	laced by a brief	description of the
Repl	edRemedy ace "This an Imendment.	nendment includes [comple	ete]" with	a brief descripti	on of the content of
	d Response POSED AC	Response Status CEPT IN PRINCIPLE.	w		
"This		at adds a point-to-point 100 rameters for operation on a			
CI 99	SC	<i>P</i> 1	-	L 1	# 24
Anslow, I		Ciena	-		
head Suggeste	table of cont lings wrong) edRemedy	Comment Status ents does not reflect the co pdate properly. (I can help	ontents of		EZ (page numbers wrong,
	d Response	Response Status		ioquiiou).	

C/ **99** SC