C/ 00	SC AII	PAII	LAII	# 1
Thomas I	Dineen	Dineen Consulti	ng	

Thomas Dineen

Comment Type TR Comment Status D

Please update the draft format to conform to the requirements of the IEEE Standards Style Manual 2005 Edition.

Supporting material cut from the "IEEE Standards Style Manual" 2005 Edition located at http://standards.ieee.org/guides/style/2005Style.pdf

4.1 Editorial requirements for submission

The sponsor of an IEEE Standards project shall be responsible for providing the IEEE-SA Standards Board with a complete, technically accurate draft of the proposed standard that meets the requirements of this manual for content, style, and legibility. Any draft standard that initiates its ballot on or after 1 January 2005 shall use the IEEE templates available on the web (see 4.2.1). A cover letter or email also shall be submitted that states the software application/program (including version number) used to create the document, order of files on the disk, etc. (See 4.3 for further information on submittal to the IEEE-SA Standards Board.) If applicable, written permission for any copyrighted material (text, figures, or tables obtained from an outside source) used within a project shall be submitted to the IEEE-SA Standards Board as well (see 5.1). During the ballot invitation period prior to balloting, the sponsor is required to submit the draft and any relevant copyright permission letters to an IEEE Standards Project Editor for mandatory editorial coordination, which may include a legal review. Project Editors are also available for questions that arise as the draft is prepared.

4.2.1 Draft development

All IEEE drafts shall be developed using an IEEE-approved document template available from the IEEE Standards World Wide Web site

<http://standards.ieee.org/resources/development/writing/templates.html>. The drafts should contain a front matter and main text, and follow the style outlined in this manual. The draft should be numbered consecutively, starting with the title page i of the front matter and page 1 of the main text. The front matter shall contain the title of the standard (see 9.1), draft copyright statements (see 4.2.2), an abstract and keywords (see 9.2), and an introduction that includes a list of the working group members and a statement describing the type of ballot conducted (see 9.3). Working groups are encouraged to consult with an IEEE Standards Project Editor if there are any questions concerning electronic tools used to develop IEEE drafts. (See Annex B for an example draft standard.)

Suggested Remedy

1) Identify a Style Guide and Framemaker document template, probably the current IEEE style guide. Use the selected Style Guide for this and future IEEE 802.3 projects. I am not so concerned or dogmatic about which style guide is chosen. Probably for reasons of good IEEE citizenship and cooperation it would be wise to select the current version of the IEEE Style guide and IEEE Framemaker templates.

2) Consistently apply the Style Guide and Framemaker template requirements to all clauses, pages, and lines of the draft.

3) For any naming, logical, graphical, table, state machine, or nomenclature conventions, including PICS tables not covered by the selected style guide develop, document,

standardize (within 802.3) and publish a set of IEEE 802.3 conventions.

4) Consistently apply the IEEE 802.3 Conventions requirements to all clauses, pages, and lines of the draft.

Response Response Status W

PROPOSED REJECT.

The commenter has not recommended any specific document changes either required or desired per the cited policy and documents.

Also:

1. The draft has been developed consistent with the cited requirements. It uses IEEE style templates and the source document is Adobe FrameMaker as required for submission to the Standards Board.

2. The cited requirements are based upon submission of the draft to the IEEE-SA. This draft is not being submitted to the IEEE-SA at this point in time.

3. Generation of a set of IEEE 802.3 conventions is beyond the approved scope of this project.

C/ 55A	SC 55A	P 2	27	L 7	# 2
Runsheng H	le	Marve	ell		
Comment T	ype TR	Comment Status	D		
Specify	how the parity	check matrix H is con	structed	I from RS code	
Suggested I	Remedy				
		generator polynomia used for constructing		check matrix H	
Response		Response Status	0		

C/ 55	SC 55.7.3.2.2	P 200	L 29	# 3
Koeman,	Henriecus	Fluke Networks		

Comment Type **T** Comment Status D

> Equation (55-28) contains insertion loss parameters as well as the length parameter. The insertion loss is related to length. Insertion loss can accurately be measured, but length can not electronically as a result of uncertainties in the Nominal Velocity of Propagation. A conversion for length to insertion loss is proposed.

Suggested Remedy

```
Change the last portion of equation (55-28) from:
"-10(log10(L/100))"
to
"-10(log10(0.0277*IL(250MHz))"
```

Remove lines 40 and 41.

Response Status 0 Response

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

C/ 55 SC Table 55-9	P 200	L 57	# 4	CI 45	SC 45.2.7.2	P106	L36	# 7
Koeman, Henriecus	Fluke Networks			Thaler, Pat		Agilent Tech	nologies	
outcome of equation (55 top of page 201. The rou	Comment Status D ELFEXT constant limit value at -28), which is 36.2 dB. This is r unding off as stated is not really lar Class E cabling (which is 37	noted as footnote necessary, and	es c and d on the	register Suggested F	, ster should hav set requires ext ?emedy	Comment Status D ve a bit to indicate extended ended next page ability. If th		
uggested Remedy				See com	ment.	_		
	s for Class F and Augmented C nd adjust the column for averag			Response		Response Status O		
lesponse	Response Status O			C/ 28 Thaler, Pat	SC 28.2.3.4.2	P 14 Agilent Tech	L 12 nologies	# 8
/ 45 SC 45.2.7.8 naler, Pat	P 109 Agilent Technolo	L 32 gies	# 5	pages w	so should be ar ith no message	Comment Status D Extended Unformatted Ne code field. The text for how	messages for 16	6 bit message code
omment Type TR These multi-register auto register counters.	Comment Status D pnegotiation values need to be	treated on reads	like the multiple	message Suggested F	es that would be Remedy	tted when extended next pa e followed by more than two	unformatted 16-k	bit pages.
uggested Remedy A read to the first registe	er latches the values of the othe	r two registers so	o that a consistant	Add exte unforma		ted next page format (all bit	s other than the fl	ag bits form an
register set is retrieved.				Response		Response Status O		
mr_next_page_loaded. mr_next_page_loaded.	ble, a write to the second and t Only a write to the first register Therefore, when updating the th uld be written followed by the fi	(e.g. 7.22) sets aree register set,	the second and	<i>Cl</i> 28B Thaler, Pat	SC 28B.2	P 48 Agilent Tech	L 33 nologies	# 9
needs to be written (for	third register, but since there a example to set the ACK bit and ids extra writes to the third regis	toggle bit), havin		Comment Ty The old		Comment Status D been deleted but the new v	value seems to be	e missing.
esponse	Response Status O	5161.		Suggested F A7 shou		next page support		
	P106	L28	# 6	Response		Response Status O		
	Aailent Technolo							
haler, Pat Comment Type TR	Agilent Technolo Comment Status D e a bit to control/report use of e	-	jes.					
haler, Pat	Comment Status D	-	jes.					

3/12/2005

C/ 28B SC 28 Thaler, Pat		P 45 gilent Techn	L 54	# 10	Cl 55 Alexander	SC 55.7.3.1	.2	P 199 Nexans	L 7	# 13
Comment Type T The priority resol misplaced. It is th	R Comment Sta ution text for Extended he second paragraph in text (same as the paus	atus D Next Page f 28.2.1.2.3 t se text).	rom my previous		Comment In Tab 6" PS Suggested	<i>Type</i> TR le 55-8, the PS ANEXT is not s <i>Remedy</i> ge "PS ANEXT_	ANEXT_cc pecified. constant lir	ent Status D		r the case of "category IB)" in Table 55-8.
Cl 55 SC Eisler, George Comment Type T Add the following		P193 olarflare atus D	L 33	# [11	CI 55 Alexander Comment In Tab incorre	<i>Type</i> TR ble 55-8 note 'b',	Comm	P199 Nexans nent Status D SB-155 D1.3 is not	L 19 a specification a	# 1 <u>4</u> nd "specified" is
Suggested Remedy	parameters are furthe		d in Table 55-8.		Suggested Chang Response	ge "specified" to	0	nse Status O		
Response	Response Sta	tus O			C/ 55 Alexander	SC 55.7.3.2	.2	Р 200 Nexans	L 50	# 15
7				# 12	Comment In Tab "categ	<i>Type</i> TR le 55-9, the PS lory 6" PS AELF	AELFEXT	nent Status D constant is not a	'limit", specificall	y for the case of
Category 6 "55 m maintaining (as o	neters", and the Class E lose as possible) the A ne Class E 100 meters	E 100 meters ugmented 6	s PSAELFEXT_0 , Class F, and C	constant values while ategory 6 "55 meters"	Suggested Chang Response	ge "PS AELFEX	_	t limit (dB)" to "PS nse Status O	AELFEXT _cons	tant (dB)" in Table 55-§
_	constant=37.9-(10GBT egarding rounding in no	· · ·	· · · ·	0 ()	Cl 55 Alexander	SC 55.7.3.2 , Jan	.2	P 201 Nexans	L 4	# 1 <u>6</u>
line 55 column 'F	e 55-9 line 53 column 'f 'SAELFEXT_constant' f	from 36.6 to	C_constant' from 36.7.	37 to 37.9 and 55-9		ole 55-9 note 'b',		e <i>nt Status</i> D SB-155 D1.3 is not	a specification a	nd "specified" is
Response	Response Sta	tus O			incorre <i>Suggested</i> Chang		"given".			
					Response		Posnor	nse Status O		

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

<i>CI</i> 55 Seki, Katsu	SC 55.4.2.4 Itoshi	P170 NEC Electronics	L10	# 17	CI 55 SC 4.6.1 P175 L4 # 20 Reviriego, Pedro Agere Systems	
Comment 7 CRC16 Suggested	Type T dosen't cover O <i>Remedy</i>	Comment Status D ct13 and Oct14 d be covered by CRC16			Comment Type TR Comment Status D The PHY control state diagram in the Draft is different from the one agreed by the w group (mcclellan_2_0205.pdf) We also think there is a bug in mcclellan_2_0205.pdf: In state PMA Training Update instead of assigning THPinit we should assign THP IFm	Ũ
Response		Response Status O			Suggested Remedy Editor to fix the differences as outlined above	
C/ 55 Seki, Katsu	SC 55.4.2.4 Itoshi	P170 NEC Electronics	L10	# 18	Response Response Status O	
Comment 7 Transm		Comment Status D information field should be spe	cified.		CI 55 SC 55.7.3 P197 L14 # 21 Cobb, Terry Systimax	
LSB is	sent first in time sent first in time.	d be the first bit transmitted.			Comment Type TR Comment Status D To ensure the PHY will meet it's BER the alien crosstalk for a channel must be spectral maximum requirement. Suggested Remedy	cified as
esponse		Response Status O			change sentence to read:	
55	SC 4.3.1	P172	L12	# 19	"To ensure the reliable operation the alien crosstalk shall not exceed the specification 50.7.3.1.2 and 55.7.3.2.2."	ons of
Reviriego, F		Agere Systems			Response Response Status O	
numbe	aft specifies a fixe	Comment Status D ed set of both IIR and FIR THP that fixing the precoder response onfigurations.			Cl 55 SC 55.1.3.2 P135 L 52 # 22 Powell, Scott Broadcom	
It also b	benefits some sp	ecific receiver configurations, w	hich is unfair.		Comment Type T Comment Status D Verbiage inconsistent with stated objective.	
		the present fixed coefficients so the precoder from the receiver.	cheme and, in	addition, to include	Suggested Remedy Change: "The PMA provides full duplex communications at 800Msymbols/s over for	ur pairs
	ceiver could use a te the coefficient	alternative pre-calculated coeffices.	cients or it cou	Id dynamically	of balanced cabling up to 100m in length."	
uggested					To: "The PMA provides full duplex communications at 800Msymbols/s over four pai balanced cabling as specified in 55.7."	rs of
Adopt a	a programmable	solution as per presentation Kot	a_1_0305.pdf		Response Response Status O	
Response		Response Status O				

omment Type TR Comment Status D Power backoff levels chosen without consideration of susceptibility to external interference. Uggested Remedy See comment on table 55-2. Same resolution should apply. Esponse Response Status O If 55 SC 55.4.3.1 P173 L12 # 24 If 55 SC 55.4.3.1 P173 L12 # 24 Ownent Type TR Comment Status D Power backoff schedule designed without consideration of susceptibility to external interference. Uggested Remedy C Redesign schedule using analysis that includes additional noise from 55.5.8.3 (Common Mode Noise Rejection) or other susceptibility tests specified in the standard. See comment on section 55.5.8.3 Comment Type E Comment Status D V 55 SC 55.5.8.3 P184 L21 # 25 E Response Status O V 55 SC 55.5.8.3 P184 L21 # 25 E Response Status O V 55 SC 55.5.8.3 P184 L21 # 25 E Response Status O Well, Scott Broadcom E Comment Status O O	SC 55.4.2	2.4 <i>P</i> 170	L 47	# 23	CI 55	SC 55.7	P193	L15	# 26
Power backoff levels chosen without consideration of susceptibility to external interference. <i>uggested Remedy</i> See comment on table 55-2. Same resolution should apply. <i>tesponse Response Response Status</i> D <i>Test Comment Status D Test </i>	owell, Scott	Broadcom			Powell, Sc	cott	Broadcom		
uggested Remedy See comment on table 55-2. Same resolution should apply. esponse Response Status O 15 S SC 55.4.3.1 P173 L12 # 24 15 S SC 55.4.3.1 P173 L12 # 24 16 S SC 55.4.3.1 P173 L12 # 24 17 S Comment Status D Power backfoll schedule designed without consideration of susceptibility to external interference. Comment Status D Power backfoll schedule designed without consideration of susceptibility to external interference. Uggested Remedy Re-design schedule using analysis that includes additional noise from 55.5.8.3 (Common Mode Noise Registion) or other susceptibility tests specified in the standard. See comment Status D Comment Status D This subsection seems redundant with the first paragraph with the exception of specifying a star topology. 17 55 SC 55.5.8.3 P184 L21 # 25 17 55 SC 55.5.8.3 P184 L21 # 25 17 65 SC 55.7.2 P193	Comment Type TR	Comment Status D			Comment	Туре Т	Comment Status D		
uggested Remedy See comment on table 55-2. Same resolution should apply. esponse Response Status O 15 S SC 55.4.3.1 P173 L12 L12 <td>Power backoff leve</td> <td>Is chosen without consideration of</td> <td>of susceptibility to</td> <td>external interference.</td> <td></td> <td></td> <td>pecify Class E or Class F in in</td> <td>troductory parag</td> <td>raph (per our</td>	Power backoff leve	Is chosen without consideration of	of susceptibility to	external interference.			pecify Class E or Class F in in	troductory parag	raph (per our
Contract of radies Job. Same testantial structure approximation of the second properties of the subclause. Response Response Status O 155 SC 55.4.3.1 P173 L12 # 24 1054 SC 55.7.1 P193 L15 # 27 Power backoff schedule designed without consideration of susceptibility to external interference. Broadcom C/ 55 SC 55.7.1 P193 L15 # 27 Power backoff schedule designed without consideration of susceptibility tests specified in the standard. See comment on section 55.5.8.3 Comment Type E Comment Status D This subscelon seems redundant with the first paragraph with the exception of specifying a "star topology". 16 55 SC 55.5.8.3 P184 L21 # 25 owell, Scott Broadcom C/ 55 SC 55.7.2 P193 L29 # 28 for softedie dimmunity test method up to 80MHz. Reference CiSPR 24 (and/or EM500-4-5 for conducted immunity test method up to 80MHz. Reference CiSPR 24 (and/or EM5002-4-3 and EN61000-4-6 for conducted and radiated suscepability	Suggested Remedy				•	,			
esponse Response Status 0 155 SC 55.4.3.1 P173 L12 # [24] owell, Scott Broadcom 100EASE-T is designed to operate over (SO/IEC 11801 4-pair balanced cabling that meets the requirements specified in this subclause. 0 owell, Scott Broadcom 0 <t< td=""><td>See comment on ta</td><td>ble 55-2. Same resolution shoul</td><td>ld apply.</td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>	See comment on ta	ble 55-2. Same resolution shoul	ld apply.			-			
15 SC 55.4.3.1 P173 L12 # 24 owell, Scott Broadcom Owell, Scott Broadcom Power backoff schedule designed without consideration of susceptibility to external interference. Ci 55 SC 55.7.1 P193 L15 # 27 Power backoff schedule designed without consideration of susceptibility to external interference. Comment Type E Comment Type E Comment Status D Weeklesse Redesign schedule using analysis that includes additional noise from 55.5.8.3 (Commont Mode Noise Releation) or other susceptibility tests specified in the standard. See common Mode Noise Releation or other susceptibility tests specified in the standard. See common Mode Noise Releation or other susceptibility tests specified in the standard. See common Mode Noise Releation or other susceptibility tests specified in the standard. See common Mode Noise Releation or other susceptibility tests specified in the standard. See common Mode Noise Response Status D Comment Type E Comment Status D 15 SC 55.5.8.3 P184 L21 # 25 16 Test method is not specified. Data has not been presented which supports that the indicated levels correspond to internationally recognized susceptibility standards (or the cale lame releated remedy Comment Type T Comment Status D Verbiage not consistent with objectives. Suggested Remedy Comment Type T Comment	Response	Response Status O			10GB	ASE-T is design	ed to operate over ISO/IEC 11	801 4-pair balan	ced cabling that meets
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Power backoff schedule designed without consideration of susceptibility to external interference. uggested Remedy Redesign schedule using analysis that includes additional noise from 55.5.8.3 (Common Mode Noise Rejection) or other susceptibility tests specified in the standard. See comment 3 tabus points and the standard and th	Comment Type TR	Comment Status D			C/ 55	SC 55.7.1	P193	L15	# 27
Uggested Remedy Re-design schedule using analysis that includes additional noise from 55.5.8.3 (Common Mode Noise Rejection) or other susceptibility tests specified in the standard. See comment on section 55.5.8.3 Comment Type T Comment Type T Suggested Remedy 1/ 55 SC 55.5.8.3 P184 L21 # [25] 0 P184 L21 # [25] 0 Broadcom See comment Status D 0 Broadcom C/ 55 SC 55.7.2 P193 L29 # [28] 0 Powell, Scott Broadcom C/ 55 SC 55.7.2 P193 L29 # [28] Uggested Remedy Comment Type T Comment Status D Comment Status D C/ 55 SC 55.7.2 P193 L29 # [28] Uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference EN61000-4-3 for radiated immunity test setup and method is described in subclause are specified to ensure that a 10GBASE-T link segment consisting of at least 55 to 100 meters of 4-pair balanced cabling will provide a reliable medium. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change first sentence to read: The transmission parameters contained in this subclause are specified to ensure that a 10GBASE-T li	Power backoff sche	edule designed without considera	tion of susceptibi	lity to external	Powell, Sc	ott	Broadcom		
Be-design schedule using analysis that includes additional noise from 55.5.8.3 (Common Mode Noise Rejection) or other susceptibility tests specified in the standard. See comment on section 55.5.8.3 With the Exception of the susceptibility tests specified in the standard. See comment on section 55.5.8.3 esponse Response Status O 1/ 55 SC 55.5.8.3 P184 L21 # 25 owell, Scott Broadcom Indicated levels correspond to intermationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). D Response Response Status O Uggested Remedy Reference EN61000-4.6 for conducted immunity test method or for fequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Reference to read: Change first sentence to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^9 while being subject to noise immunity test setup and method is described in Subject to noise immunity test sepecified in CISPR 24. Change first sentence to read: The transmission parameters contained in this subclause are specified to ensure that a 10GBASE-T link segment consisting of at least 55 to 100 meters of 4-pair balanced cabling will provide a reliable medium.	interference.				Comment	Type E	Comment Status D		
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on section 55.5.8.3 P184 L21 # [25] 1/ 55 SC 55.5.8.3 P184 L21 # [25] owell, Scott Broadcom Image first sentence in 55.7 intro paragraph to read: 10GBASE-T is designed to operate over a star topology using 4-pair* Image first sentence in 55.7 is designed to operate over a star topology using 4-pair* Eliminate 55.7.1. <i>Image first sentence</i> Free procession of the internationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). D <i>Uggested Remedy</i> Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-6 for conducted immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in the respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24. Response Response Status O					"star t	opology".			
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1/55 SC 55.5.8.3 P184 L21 # 25 owell, Scott Broadcom formment Type TR Comment Status D Test method is not specified. Data has not been presented which supports that the indicated levels correspond to internationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). L29 # 28 uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Suggested Remedy Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24. Response Status O	Response	Response Status O							
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omment Type TR Comment Status D Test method is not specified. Data has not been presented which supports that the indicated levels correspond to internationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). Cl 55 SC 55.7.2 P 193 L 29 # 28 uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-6 for conducted immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: Change first sentence to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-3 and EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24. Cl 55 SC 55.7.2 P 193 L 29 # 28			L 21	# 25	Response		Response Status 0		
Test method is not specified. Data has not been presented which supports that the indicated levels correspond to internationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-3 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.	owell, Scott	Broadcom							
Test method is not specified. Data has not been presented which supports that the indicated levels correspond to internationally recognized susceptibility standards (or the cable clamp test specified for 1000BT in 44.6.1.3.3). Powell, Scott Broadcom uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Suggested Remedy Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24. Powell, Scott Broadcom Response Response Status O						SC 55 7 2	D102	/ 20	# 00
Cable clamp test specified for 1000BT in 44.6.1.3.3). uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-3 and EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.								L 29	# 28
uggested Remedy Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-3 and EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.				standards (or the	,				
Reference EN61000-4-6 for conducted immunity test method up to 80MHz. Reference EN61000-4-3 for radiated immunity test method for frequencies greater than 80MHz. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.	uggested Remedy					51			
ENd 1000-4-3 for hadraded infinitivity test method for mequencies greater than solvin2. Reference CISPR 24 (and/or EN55024) for minimum required immunity levels. Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.	Reference EN6100	0-4-6 for conducted immunity tes	st method up to 8	MHz. Reference		0	ni with objectives.		
Change second paragraph to read: The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.					00	-	to road:		
The transceiver shall maintain an LDPC frame error rate less than 3.2x10^-9 while being subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.	Reference CISPR 2	24 (and/or EN55024) for minimun	n requirea immun	ity levels.	Chang	ge mst sentence	to read.		
subject to noise immunity testing. Noise immunity test setup and method is described in EN61000-4-3 and EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.	0	5 1			10GB	ASE-T link segn	nent consisting of at least 55 to		
EN61000-4-3 and EN61000-4-6 for conducted and radiated susceptibility respectively. Testing shall be performed to at least the minimum legal levels specified in CISPR 24.									
esponse Response Status O	EN61000-4-3 and I	EN61000-4-6 for conducted and r	adiated susceptil	pility respectively.	Response		Response Status O		
	- .								

Cl 55 SC 55.7.2 Powell, Scott	P 193 Broadcom	L 38	# 29	C/ 55 SC 55.7. Powell, Scott	3.1.2 <i>P</i> 199 Broadcom	L 5	# 32
	Comment Status D s for IL and ELFEXT in 11801 r ey also need to include length		nded in frequency but	Comment Type T This table could be Class E.	Comment Status D interpreted to imply that shielded	d Class F has 2d	IB *worse* ANEXT than
ISO/IEC 11801 Class	to read: smission parameters of insertic E specifications extended by e Hz with appropriate adjustment <i>Response Status</i> O	xtrapolating the		11801 IL equation	of referencing a specific cable ty for that particular cable. Perhaps sertion Loss" and replace the entr 301. <i>Response Status</i> O	s it would be clea	arer to change the labe
Suggested Remedy	4 P196 Broadcom Comment Status D does not show dependence on to include length dependence. Response Status O	C	# 30	Cl 55 SC 55.7. Powell, Scott Comment Type T See comment on t Suggested Remedy See remedy to cor Response	Broadcom Comment Status D	L 48	# 3 <u>3</u>
Cl 55 SC 55.7.3.1. Powell, Scott Comment Type T Equation 55-25 is redu Suggested Remedy Modify equation 55-10 associated text.	Broadcom Comment Status D	L 42 dence. Drop ec	# 31	Suggested Remedy Change upper limi implementation.	Broadcom Comment Status D pecify RL to 500MHz with a 400M from 500MHz to 400MHz to eas	-	# 3 <u>4</u>
Response	Response Status O			Response	Response Status O		

C/ 55 SC 55.1.3.2 P136 L1 # 35 Ungerboeck, Gottfried Broadcom Broadcom	C/ 55 SC 55.7.2.1 P 193 L 55 # 38 Ungerboeck, Gottfried Broadcom Broadcom
Comment Type T Comment Status D Text assumes transmit filtering performed entirely in analog domain.	Comment Type TR Comment Status D Insertion loss specification does not reflect length dependence.
Suggested Remedy Change sentence to read:	Suggested Remedy Please see corresponding presentation for a concise specification of cabling characteristics
This THP processed four dimensional symbol stream may be further processed by a digital transmit filter and is then passed on to four digital-to-analog converters (DACs).	Response Response Status O
Please see accompanying presentation on digital transmit filter. Response Response Status O	C/ 55 SC 55.7.3.1.1 P197 L 53 # 39 Ungerboeck, Gottfried Broadcom
· · ·	Comment Type TR Comment Status D Equation 55-23 does not specify length dependence on ANEXT.
C/ 55 SC 55.4.3.1 P172 L 44 # 36 Jngerboeck, Gottfried Broadcom	Suggested Remedy
Comment Type TR Comment Status D Specifying fixed precoder values is premature prior to detailed specification of the transmitter.	Please see corresponding presentation for a concise specification of cabling characteristic Response Response Status O
Suggested Remedy Please refer to corresponding presentation for transmitter specification and corresponding fixed IIR precoder coefficients.	Cl 28SCP17L5#Thompson, ToddSolarFlare Communica
Please refer to corresponding presentation for transmitter specification and corresponding fixed IIR precoder coefficients.	
Please refer to corresponding presentation for transmitter specification and corresponding fixed IIR precoder coefficients. Response Response Status O C/ 55 SC 55.5.6 P182 L45 # 37	Thompson, Todd SolarFlare Communica Comment Type E Comment Status D Table 28-8. Table 28-8. Table 28-8. Comment Status
Please refer to corresponding presentation for transmitter specification and corresponding fixed IIR precoder coefficients. Response Response Status Cl 55 SC 55.5.6 P182 L45 # 37 Ingerboeck, Gottfried Broadcom Comment Type TR Comment Status D	Thompson, Todd SolarFlare Communica Comment Type E Comment Status D Table 28-8. MDIO register for mr_adv_ability[16:1] is incorrect. MDIO register for mr_lp_adv_ability[16:1] is missing. Suggested Remedy
fixed IIR precoder coefficients. Response Response Status O C/ 55 SC 55.5.6 P182 L45 # 37 Ungerboeck, Gottfried Broadcom	Thompson, Todd SolarFlare Communica Comment Type E Comment Status D Table 28-8. MDIO register for mr_adv_ability[16:1] is incorrect. MDIO register for mr_lp_adv_ability[16:1] is missing. Suggested Remedy MDIO register for mr_adv_ability[16:1] should be 7.16.15:0 AN advertisement register (see

CI 28 SC	P 34	L 30	# 41	C/ 45	SC 45.2.7.11		P 112	L 47	# 43
Thompson, Todd	SolarFlare Co	mmunica		Thompsor	,		SolarFlare Co	ommunica	
Comment Type T	Comment Status D			Comment		Comment S	Status D		
This comment relates t and to the NLP Link Int	o Clause 45.2 Auto-Negotiatio egrity Test.	on and to Clause	28 Parallel Detection		45-125.				
	pecify bits for parallel detection			Loop t		ot consistent wi	th the terms us	sed in the rest of	is/is not capable of this table or in the
This implies parallel de	tection is not required for 10G	BASE-T auto-ne	gotiation.		erm also doesn't artner has the abi		ription in 7.33	.10 which says it	indicates "that the
	k_status_[NLP] in the arbitrat	ion state diagram	is in the parallel	Suggested	d Remedy				
detection (transition to	LINK STATUS CHECK).			••	d of "PHY" use th	he term "LP is/i	s not capable	of Loop timing".	
Parallel detection in the items 20 and 21 in 28.	e PICS proforma is required of 5.4.6.	an MII interface. See	Response		Response S	tatus O			
If parallel detection is of have the NLP Receive (Removing parallel det	interface is present.	Cl 45 Thompsor	SC 45.2.7.11 n, Todd		P 113 SolarFlare Co	L 6 ommunica	# 44		
arbitration state diagra Suggested Remedy Modify Item 4 in 28.5.4	,			<i>Comment</i> Table	<i>Туре</i> Е 45-125.	Comment S	Status D		
Response	Response Status O			There	is a typo in the "I	Bit(s)" field for t	he AN status i	register.	
				7.34.X	k is written when	it should be 7.3	3.X.		
C/ 45 SC 45.2.7.9	P110	L18	# 42	Suggested	d Remedy				
hompson, Todd	SolarFlare Co	mmunica		Chang	ge 7.34.6 to 7.33.	.6 and change 7	7.34.5:4 to 7.3	3.5:4.	
Comment Type E	Comment Status D			Response		Response S	tatus O		
	45-3 is incorrect. There's no	reference in Table	e 45-3 to link partner						
next pages.				C/ 45	SC 45.2.7.11	.5	P113	L55	# 45
Suggested Remedy	• · · · •	-		Thompsor			SolarFlare Co		" 10
Modify this reference to	point to the correct table or f	igure.		Comment		Comment S	Status D		
writer had in mind. The	e is the correct table. I couldn' re's no table in Clause 28 that	t fits, but perhaps	it's supposed to be a		eference to regist			ter when it should	l be to a clause 45
reference to a figure in	stead of a table in Clause 28?	' i his probably sh	OUID DE TADIE 45-123!	Suggested	d Remedy				
-									
Response	Response Status O			Modify	y 6.1 to 7.1.6.				

C/ 45 SC 45.2.7.1 Thompson, Todd	1.9 P114 SolarFlare Co	<i>L</i> ommunica	# 46	C/ 55 SC 55. Booth, Brad	5 .4.3.1 Int	P 173 tel	L1	# 49
	Comment Status D bits 7.33.6 LP THP IIR down se . They should follow subclause		5:4 LP THP FIR down	The response to	E Comment Sta to the comment for Table to only have the rx'ed sig	55-2 is diffe		
uggested Remedy Add descriptions for 7	7.33.6 and 7.33.5:4 just followir	ng 45.2.7.11.9.		Suggested Remedy Remove editor's	not and remove the leng	gth and IL c	olumns from Tab	le 55-2.
lesponse	Response Status O			Response	Response Stat	tus O		
2/ 45 SC 45.2.7.1 2 hompson, Todd	2 P115 SolarFlare Co	L 34 ommunica	# 47	C/ 55 SC 55. Booth, Brad	5 .11 Int	P 208 tel	L19	# 50
Comment Type E Descriptions for 7.34.5 describing their usage	Comment Status D 5 and 7.34.4:3 from table 45-1:	26 are missing the	e corresponding text	Comment Type 1 TBD in the delay	T Comment Sta y contraints table.	tus D		
5 0				Suggested Periody				
uggested Remedy	7.34.5 and 7.34.4:3 just before	e 45.2.7.12.1.			a maximum offered by a siated with 10GbE. That			
uggested Remedy Insert descriptions for		e 45.2.7.12.1.		Unless there is a maximum assoc	a maximum offered by a	would make	e this value = 18,	432 bit times.
uggested Remedy Insert descriptions for esponse	7.34.5 and 7.34.4:3 just before Response Status O P190	L12	# [48	Unless there is a maximum assoc	a maximum offered by a siated with 10GbE. That	would make	e this value = 18,	432 bit times.
uggested Remedy Insert descriptions for esponse 55 SC 55.6.2 hompson, Todd	7.34.5 and 7.34.4:3 just before Response Status O P 190 SolarFlare Co	L12	# [48	Unless there is a maximum assoc Also, change the pause_quanta. <i>Response</i>	a maximum offered by a siated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i>	would make	e this value = 18,	432 bit times.
uggested Remedy Insert descriptions for response 7 55 SC 55.6.2 hompson, Todd romment Type E The variable names for	7.34.5 and 7.34.4:3 just before Response Status O P 190 SolarFlare Co Comment Status D or unformatted message bits w	L 12 ommunica rere copied from t	he 1000BASE-T	Unless there is a maximum assoc Also, change the pause_quanta.	a maximum offered by a siated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i>	would make reflect this tus O P209	e this value = 18,	432 bit times.
uggested Remedy Insert descriptions for response 7 55 SC 55.6.2 hompson, Todd romment Type E The variable names for standard for master-sl	7.34.5 and 7.34.4:3 just before Response Status O P190 SolarFlare Co Comment Status D or unformatted message bits w lave determination, but for exter w. However, the old variable na	L12 ommunica rere copied from t ended next pages	he 1000BASE-T s these bits are in	Unless there is a maximum assoc Also, change the pause_quanta. Response CI 55 SC 55.	a maximum offered by a ciated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i> 5.12 In E <i>Comment Sta</i>	would make reflect this tus O P209 tel	e this value = 18, change with 18,4	432 bit times. I32 bit times and 36
uggested Remedy Insert descriptions for esponse 55 SC 55.6.2 hompson, Todd comment Type E The variable names for standard for master-sl different positions now non-extended next pa U0, U1, and U2 referre	7.34.5 and 7.34.4:3 just before Response Status O P190 SolarFlare Co Comment Status D or unformatted message bits w lave determination, but for exter w. However, the old variable na	L12 ommunica rere copied from t ended next pages ames are still used	he 1000BASE-T s these bits are in d which refer to the	Unless there is a maximum assoc Also, change the pause_quanta. <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55 . Booth, Brad <i>Comment Type</i>	a maximum offered by a ciated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i> 5.12 E Comment Sta or D2.0.	would make reflect this tus O P209 tel	e this value = 18, change with 18,4	432 bit times. I32 bit times and 36
Uggested Remedy Insert descriptions for Response 57 55 SC 55.6.2 hompson, Todd comment Type E The variable names for standard for master-sl different positions now non-extended next pa U0, U1, and U2 referrent these bits are U11, U1	7.34.5 and 7.34.4:3 just before <i>Response Status</i> O <i>P</i> 190 SolarFlare Co <i>Comment Status</i> D or unformatted message bits w lave determination, but for exter w. However, the old variable na- age bit positions. red to these bit positions in next	L12 ommunica rere copied from t ended next pages ames are still used t page format. In	he 1000BASE-T s these bits are in d which refer to the	Unless there is a maximum assoc Also, change the pause_quanta. <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55 . Booth, Brad <i>Comment Type</i> E Provide PICS for <i>Suggested Remedy</i>	a maximum offered by a ciated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i> 5.12 E Comment Sta or D2.0.	would make reflect this tus O P209 tel tus D	e this value = 18, change with 18,4	432 bit times. I32 bit times and 36
Uggested Remedy Insert descriptions for esponse 7 55 SC 55.6.2 hompson, Todd omment Type E The variable names for standard for master-sl different positions now non-extended next pa U0, U1, and U2 referrent these bits are U11, U1 For clarity the variable	7.34.5 and 7.34.4:3 just before Response Status O P190 SolarFlare Co Comment Status D or unformatted message bits w lave determination, but for exter w. However, the old variable na age bit positions. red to these bit positions in nex 12 and U13 respectively.	L12 ommunica rere copied from t ended next pages ames are still used t page format. In	he 1000BASE-T s these bits are in d which refer to the	Unless there is a maximum assoc Also, change the pause_quanta. <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55 . Booth, Brad <i>Comment Type</i> E Provide PICS for <i>Suggested Remedy</i> Fill in the PICS.	a maximum offered by a ciated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i> 5.12 Int E Comment Sta or D2.0.	would make reflect this tus O P209 tel tus D	e this value = 18, change with 18,4	432 bit times. I32 bit times and 36
Suggested Remedy Insert descriptions for Response C/ 55 SC 55.6.2 hompson, Todd Comment Type E The variable names for standard for master-sl different positions now non-extended next pa U0, U1, and U2 referre these bits are U11, U1 For clarity the variable Suggested Remedy	7.34.5 and 7.34.4:3 just before Response Status O P190 SolarFlare Co Comment Status D or unformatted message bits w lave determination, but for exter w. However, the old variable na age bit positions. red to these bit positions in nex 12 and U13 respectively.	L12 ommunica rere copied from t ended next pages ames are still used at page format. In w bit positions.	he 1000BASE-T s these bits are in d which refer to the	Unless there is a maximum assoc Also, change the pause_quanta. <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55 . Booth, Brad <i>Comment Type</i> E Provide PICS for <i>Suggested Remedy</i> Fill in the PICS.	a maximum offered by a ciated with 10GbE. That e values in Table 44-2 to <i>Response Stat</i> 5.12 Int E Comment Sta or D2.0.	would make reflect this tus O P209 tel tus D	e this value = 18, change with 18,4	432 bit times. I32 bit times and 36

C/ 28C SC 28C.11	P 52 Intel	L 23	# 52	C/ 55 SC 55.4.5.2 Booth, Brad	P 174 Intel	L17	# 56
Booth, Brad Comment Type E Second sentence refer	Comment Status D s to next page, not extended	next page.		Comment Type T TBDs associated with	Comment Status D		
Suggested Remedy Insert "extended" befor	re next page.			Suggested Remedy Adopt timer values as	isted and remove TBDs.		
Response	Response Status O			Response	Response Status O		
C/ 44 SC 44.5 Booth, Brad	P 81 Intel	L7	# 5 <u>3</u>	<i>Cl</i> 00 <i>SC</i> Booth, Brad	P Intel	L	# 57
	Comment Status D changed in D2.1 of REVam.	There are no cha	anges being made	Comment Type E Ensure that D2.0 refere	Comment Status D ences the most recent version	n of 802.3REVam.	
here by 802.3an. Suggested Remedy Delete all of subclause Response	44.5. Response Status O			Suggested Remedy As per comment. Response	Response Status 0		
C/ 55 SC 55.1.1 Booth, Brad	P 131 Intel	L 45	# 54	CI 55 SC 55.5.8.4 William Jones	P 184 Solarflare Co	L 33 ommunicat	# 58
Comment Type E Editor's note not require	Comment Status D				Comment Status D of the noise not specified (te	ext shows it as TBD)	
Suggested Remedy Delete editor's note.				Suggested Remedy Replace TBD with -14	.9 (see jones_1_0305.pdf)		
Response	Response Status 0			Response	Response Status O		
C/ 55 SC 55.4.4 Booth, Brad	P 173 Intel	L 50	# 55				
	Comment Status D which is the same text as in 5 oclause to avoid having to edi		ns 1000BASE-T.				
Suggested Remedy	n "40.4.4" to "40.4.4.1 and 40.						
	Response Status O						

C/ 55 SC 55.5.	6 P182	L 45	# 59	C/ 55	SC 55.4.3.1		P 173	L	# 62
Adriaenssens, Luc	SYSTIMAX S	olutions		George Zimm	nerman		SolarFlare		
Comment Type TR	Comment Status D			Comment Typ	pe T	Commen	t Status D		
	PSD mask is a 2-piece linear equ			Fill in pov	ver backoff table	ə.			
	MHz. Simulations performed by ill have substantial margin to this			Suggested R	emedy				
	_1_0105.pdf). We should tighten			See table	e in presentation	Zimmerma	an_1_0305.pdf		
	re more constrained to enhance in	nteroperability ar	nd assure better EMC	La a ath (as					
performance.				0 (n) Far End Pow		васкоп (ов)		
Suggested Remedy				0-25	>+0.3	14			
0 11	PSD mask to a 3-piece linear equ <=150	uation:		25-35	+0.3 to -1.1	12			
-	<=150 50 <f<=730< td=""><td></td><td></td><td>35-45</td><td>-1.1 to -2.3 -2.3 to -3.3</td><td>10 8</td><td></td><td></td><td></td></f<=730<>			35-45	-1.1 to -2.3 -2.3 to -3.3	10 8			
-78-(f-330)/40 73				45-55 55-65	-2.3 to -3.3 -3.3 to -4.2	8 6			
				65-75	-3.3 to -4.2 -4.2 to -5.0	4			
See supporting dia	gram in pdf file			75-85	-5.0 to -5.7	2			
Response	Response Status 0			>85	<-5.7	0			
	· · · · · · · · · · · · · · · · · · ·			Response		Response	Status O		
C/ 44 SC 44.3	P 79	L28	# 60						
		L 20	# 60						
	SolarFlare	220	# 60		SC Table 55A		P214	L 3	# 63
George Zimmerman		220	# 60	C/ 55A Sailesh Rao	SC Table 55A		P 214 Phyten Techn		# 63
George Zimmerman Comment Type T fill in TBDs in delay	SolarFlare <i>Comment Status</i> D / table. Discussion in study group	and task force h	nas made it clear that			Commen			# 63
George Zimmerman Comment Type T fill in TBDs in delay vendors will make	SolarFlare Comment Status D (table. Discussion in study group application-specific delay tradeoff	and task force h	nas made it clear that ason exists for tight	Sailesh Rao <i>Comment Typ</i> The spec	pe T ification of the L	DPC code	Phyten Techn t Status D has several prot	ologies, I blems:	
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data	SolarFlare Comment Status D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of	and task force h	nas made it clear that ason exists for tight	Sailesh Rao <i>Comment Typ</i> The spec 1. The tal	be T ification of the L ble for the speci	DPC code	Phyten Techn t Status D has several prot	ologies, I blems:	# 63
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela	SolarFlare Comment Status D (table. Discussion in study group application-specific delay tradeoff	and task force h	nas made it clear that ason exists for tight	Sailesh Rao <i>Comment Typ</i> The spec 1. The tal truly cum	be T ification of the L ble for the speci bersome.	DPC code	Phyten Techn t Status D has several prot 45 pages long. I	ologies, I blems: It contains 194,6	699 entries, which is
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy	SolarFlare Comment Status D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be.	and task force h fs. No driving re lelays. Discussio	has made it clear that ason exists for tight on with users has	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp	be T ification of the L ble for the speci bersome. pecification obsc	DPC code ification is 1 cures the str	Phyten Techn t Status D has several prot 45 pages long. I ructured nature o	bologies, I blems: It contains 194,6 of the (2048,172	
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy	SolarFlare Comment Status D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of	and task force h fs. No driving re lelays. Discussio	has made it clear that ason exists for tight on with users has	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore	be T ification of the L ble for the speci bersome. pecification obsc	DPC code ification is 1 cures the sting an encode	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder	bologies, I blems: It contains 194,6 of the (2048,172	699 entries, which is 3) LDPC code and
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy fill in TBDs with equ	SolarFlare Comment Status D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be.	and task force h fs. No driving re lelays. Discussio	has made it clear that ason exists for tight on with users has	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a o 3. The stu	be T ification of the L ble for the speci bersome. ecification obsc , anyone devisir competitive impl ructured definitio	DPC code fication is 1 cures the string an encod lementation on of the co	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder n. ode is currently o	ologies, I blems: It contains 194,6 of the (2048,172 from the standa nly available on	699 entries, which is 3) LDPC code and
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy fill in TBDs with equ	SolarFlare Comment Status D v table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be.	and task force h fs. No driving re lelays. Discussio	has made it clear that ason exists for tight on with users has	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The st site, whic	be T ification of the L ble for the speci bersome. pecification obsc , anyone devisir competitive impl ructured definition th unlike the star	DPC code fication is 1 cures the string an encod lementation on of the co	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder n.	ologies, I blems: It contains 194,6 of the (2048,172 from the standa nly available on	699 entries, which is 3) LDPC code and ard would not be able to
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy fill in TBDs with equ Response	SolarFlare Comment Status D v table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete Response Status O	and task force h fs. No driving re lelays. Discussion e reference to 55	has made it clear that ason exists for tight on with users has 5.11.1	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a o 3. The stu site, whice Suggested Re	be T ification of the L ble for the speci bersome. vecification obsc , anyone devisir competitive impl ructured definition h unlike the star emedy	DPC code fication is 1 sures the sting an encodementation on of the condard, is ep	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder of bode is currently o ohemeral in natu	bologies, I blems: It contains 194,6 of the (2048,172 from the standa nly available on re.	599 entries, which is 3) LDPC code and ard would not be able to the task force web
George Zimmerman <i>Comment Type</i> T fill in TBDs in delay vendors will make a delays, and no data suggested that delay <i>Suggested Remedy</i> fill in TBDs with equilation <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55.11	SolarFlare <i>Comment Status</i> D v table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208	and task force h fs. No driving re lelays. Discussio	has made it clear that ason exists for tight on with users has	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The stu site, whic Suggested Re Specify th	be T iffication of the L ble for the speci bersome. vecification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code u	DPC code fication is 1 ures the stu- ng an encodementation on of the co- ndard, is ep- using the HI	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder b de is currently o obemeral in natu	blems: It contains 194,6 of the (2048,172 from the standa nly available on re. and the col_swa	599 entries, which is 3) LDPC code and ard would not be able to the task force web ap_b and row_swap_b
George Zimmerman <i>Comment Type</i> T fill in TBDs in delay vendors will make delays, and no data suggested that dela <i>Suggested Remedy</i> fill in TBDs with eq <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55.11 George Zimmerman	SolarFlare <i>Comment Status</i> D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare	and task force h fs. No driving re lelays. Discussion e reference to 55	has made it clear that ason exists for tight on with users has 5.11.1	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The st site, whic Suggested Re Specify th vectors. S	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the start emedy the LDPC code un Such a specifica	DPC code fication is 1 cures the stu- ng an encodementation on of the co- ndard, is ep- using the HI tition preser	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder b de is currently o obemeral in natu	blems: It contains 194,6 of the (2048,172 from the standa nly available on re. and the col_swa	599 entries, which is 3) LDPC code and ard would not be able to the task force web ap_b and row_swap_b code, and provides the
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy fill in TBDs with equ Response C/ 55 SC 55.11 George Zimmerman Comment Type E	SolarFlare <i>Comment Status</i> D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare <i>Comment Status</i> D	and task force h fs. No driving re lelays. Discussion e reference to 55	has made it clear that ason exists for tight on with users has 5.11.1 # 61	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The st site, whic Suggested Ro Specify th vectors. S necessar decoders	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code un Such a specification y tools for future in addition, such	DPC code fication is 1 cures the stu- ng an encod lementation on of the co- ndard, is ep using the HI ation preserve implement ch a specifi	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder h. de is currently o obemeral in natu b sparse matrix, ves the structure ters to derive co ication only need	blems: It contains 194,6 of the (2048,172 from the standa only available on re. and the col_swa ed nature of the mpetitive LDPC ds 2048 X 7 + 38	599 entries, which is 3) LDPC code and ard would not be able to the task force web ap_b and row_swap_b code, and provides the
George Zimmerman <i>Comment Type</i> T fill in TBDs in delay vendors will make delays, and no data suggested that dela <i>Suggested Remedy</i> fill in TBDs with equ <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55.11 George Zimmerman <i>Comment Type</i> E	SolarFlare <i>Comment Status</i> D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare	and task force h fs. No driving re lelays. Discussion e reference to 55	has made it clear that ason exists for tight on with users has 5.11.1 # 61	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The st site, whic Suggested Ro Specify th vectors. S necessar decoders	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code us Such a specifical y tools for futures . In addition, suc s and can be write	DPC code fication is 1 cures the stu- ng an encodementation on of the co- ndard, is ep- using the HI tition preser e implemen ch a specifi itten up in l	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder bode is currently o obemeral in natu bosparse matrix, ves the structure ters to derive co ication only need ess than 11 page	blems: It contains 194,6 of the (2048,172 from the standa only available on re. and the col_swa ed nature of the mpetitive LDPC ds 2048 X 7 + 38	599 entries, which is 3) LDPC code and ard would not be able to the task force web ap_b and row_swap_b code, and provides the encoders and
George Zimmerman <i>Comment Type</i> T fill in TBDs in delay vendors will make delays, and no data suggested that dela <i>Suggested Remedy</i> fill in TBDs with equ <i>Response</i> <i>Cl</i> 55 <i>SC</i> 55.11 George Zimmerman <i>Comment Type</i> E	SolarFlare <i>Comment Status</i> D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare <i>Comment Status</i> D	and task force h fs. No driving re lelays. Discussion e reference to 55	has made it clear that ason exists for tight on with users has 5.11.1 # 61	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a c 3. The st site, whic Suggested Ro Specify th vectors. S necessar decoders	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code us Such a specifical y tools for futures . In addition, suc s and can be write	DPC code fication is 1 cures the stu- ng an encodementation on of the co- ndard, is ep- using the HI tition preser e implemen ch a specifi itten up in l	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder h. de is currently o obemeral in natu b sparse matrix, ves the structure ters to derive co ication only need	blems: It contains 194,6 of the (2048,172 from the standa only available on re. and the col_swa ed nature of the mpetitive LDPC ds 2048 X 7 + 38	599 entries, which is 3) LDPC code and ard would not be able t the task force web ap_b and row_swap_b code, and provides the encoders and
George Zimmerman Comment Type T fill in TBDs in delay vendors will make delays, and no data suggested that dela Suggested Remedy fill in TBDs with equ Response CI 55 SC 55.11 George Zimmerman Comment Type E XGMII will likely no Suggested Remedy	SolarFlare <i>Comment Status</i> D y table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare <i>Comment Status</i> D	and task force h fs. No driving re lelays. Discussion e reference to 55 L	has made it clear that ason exists for tight on with users has 5.11.1 # 61	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a o 3. The stu site, whic Suggested Re Specify th vectors. S necessar decoders the tables	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code us Such a specifical y tools for futures . In addition, suc s and can be write	DPC code fication is 1 cures the stu- ng an encodementation on of the co- ndard, is ep- using the HI tition preser e implemen ch a specifi itten up in l	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder bode is currently o obemeral in natu bosparse matrix, ves the structure ters to derive co ication only need ess than 11 page	blems: It contains 194,6 of the (2048,172 from the standa only available on re. and the col_swa ed nature of the mpetitive LDPC ds 2048 X 7 + 38	599 entries, which is 3) LDPC code and ard would not be able to the task force web ap_b and row_swap_b code, and provides the encoders and
George Zimmerman Comment Type T fill in TBDs in delay vendors will make a delays, and no data suggested that delay Suggested Remedy fill in TBDs with equilibrium Response CI 55 SC 55.11 George Zimmerman Comment Type E XGMII will likely no Suggested Remedy	SolarFlare <i>Comment Status</i> D A table. Discussion in study group application-specific delay tradeoff a has been presented to restrict of ays up to 10usec would be. uivalent values for 10 usec, delete <i>Response Status</i> O 1.1 <i>P</i> 208 SolarFlare <i>Comment Status</i> D at be available reference point, disc	and task force h fs. No driving re lelays. Discussion e reference to 55 L	has made it clear that ason exists for tight on with users has 5.11.1 # 61	Sailesh Rao Comment Typ The spec 1. The tal truly cum 2. The sp therefore derive a o 3. The stu site, whic Suggested Re Specify th vectors. S necessar decoders the tables	be T ification of the L ble for the speci bersome. becification obsc , anyone devisir competitive impl ructured definition th unlike the star emedy the LDPC code us Such a specifical y tools for futures . In addition, suc s and can be write	DPC code fication is 1 cures the stu- ng an encodementation on of the co- ndard, is ep- using the HI tition preser e implemen ch a specifi itten up in l	Phyten Techn t Status D has several prot 45 pages long. I ructured nature of der or a decoder bode is currently o obemeral in natu bosparse matrix, ves the structure ters to derive co ication only need ess than 11 page	blems: It contains 194,6 of the (2048,172 from the standa only available on re. and the col_swa ed nature of the mpetitive LDPC ds 2048 X 7 + 38	599 entries, which is 3) LDPC code and ard would not be able t the task force web ap_b and row_swap_b code, and provides the encoders and

				IEEE P80	2.3an Comme	ents			3/	12/2005
C/ 55 SC 55.4	.3.1	P172	L15	# 64	C/ 55	SC		Р	L	# 65
Sailesh Rao		Phyten Technol	ologies, I		Bennett, Mic	hael		LBNL		
Comment Type TR	cor	mment Status D			Comment Ty	pe	т	Comment Status D		
1. The THP Bypas 2. If a THP Bypass who are building F	ss mode is n s mode is m PHYs based	pass mode during nor ot needed for noise ma ade available during no on just the THP Bypas	argin purposes for ormal operation, s mode will gain	r Om operation. then implementers a competitive	T link se supplem	gmen entec	nt. As wi d with ar	lien crosstalk and extended f th 1000BASE-T, the link seg n Annex addressing the addi ate the end-user deployment	ment specification	n of 55.7 must be
THP filters specifie	advantage if the specified THP coefficients are all unusable. At present, in Draft D1.3, the THP filters specified are all unusable if 1000BASE-T Alien FEXT/NEXT are the dominant						dy 2 an A	nnex to Clause 55 addressir	a additional cablir	a dosign guidolinos fo
noise sources in th	he cable plai	nt.						55B - Additional cabling des		
Suggested Remedy Delete the THP Bypass mode and free up the address space for useful purposes.					Boilerpla Annex 5			al cabling design guidelines:		
Response	Res	oonse Status O			copper c	ablin	g syster	additional cabling guidelines ns as specified in 55.7. intended to supplement thos		eployment on balanced
					ISO/IEC recommo 10 and I	1180 endeo SO/IE	01 Editio d that th EC 1180	Y is designed to operate four on 2 with appropriate augmer le guidelines (proposed) in A 11 Edition 2.1 be considered bling system.	ntation as specifie NSI/TIA TSB 155	d in 55.7. It is and ANSI/TIA 568-B.2
					55B.1.1 +++point +++asyn +++conr	Cablin t-to-per nector Bund Field Mitiga h core ng ur	ng Topo oint rical r co-loca led or h Testing ation d hbundlin	ation ybrid cables	nents	
					55B.2.1	Mitiga s-con	ation nect ve	extrapolated frequency perf	ormance	
					Response		Ū	Response Status 0		
					Response			Response Status O		

C/ 55 SC 55.4.5. McClellan, Brett	2 P174 Solarflare	L17	# 66	C/ 55 McClellan	SC 55 , Brett	5.4.5.2	P 174 Solarflare	L 27	# 68
Comment Type T Comment Status D maxwait_timer value is TBD, and the text refers to only 1 of the 2 state machine figures using the timer.					71		Comment Status D tion refers to states that don	't exist.	
Suggested Remedy change text to:				chang	je text to:	,			
SILENT and TRAINI	the amount of time during which NG states. The timer shall expire	e 2000 ± 10 ms a	after being started.	A time	ng and Se	determinend PCS	ne the minimum amount of ti Link OK states. The timer sl	me the PHY Con nall expire 1 ± 0.1	trol stays in the PCS 1 ms after being
maxwait_timer is tes	ntly in the PHY Control and Link ted by the Link Monitor to force I c_rcvr_status is NOT_OK. See F	link_status to be	set to FAIL if the	Response)		Response Status O		
Response	Response Status 0			<i>Cl</i> 28 McClellan	SC 28 , Brett	3.3.2	P 26 Solarflare	L 26	# 69
SC 55.4.5.	2 P174	L 22	# 67	Comment	Туре	т	Comment Status D		
IcClellan, Brett	Solarflare						nent #85 at the February inte rently for 10GBASE-T.	rim was that the	link_fail_inhibit_timer
Comment Type T	Comment Status D						eflect this change, and the tir	ne is still TBD.	
The operation of the	maxincr_timer isn't clear in the o	draft.		T 1. 1. 1				the standard back the	
the time spent at any		0		startu	p (propose	ed to be	et such that it will not timeou 2000ms). 2250 ms should be sufficien	•	e needed for PHY
	er expire when PBO = -14? The en the timer expires while PBO=-			Suggeste	d Remedy	/			
stay at PBO=-6?	nty after autoneg is ~68ms (8 au						ink_fail_inhibit_timer into line of 2000/2250 ms.	es for 10GBASE-	T and other devices.
Suggested Remedy change the text to:					update the t the chan		28.5.4.8 page 44 line 22 and	d the text in 28.3.	2 page 25 line 34 to
change the text to.				Response	9		Response Status O		
while in the PMA Tra	the amount of time during which ining Init M state. The timer sha 0 = -10. The timer shall not expire	III expire at 168 ±	5 ms if PBO = -14, or						
at 100 ± 5 ms if PBC									

C/ 55 SC 55.4.	6.1 P175	L15	# 70	C/ 55	SC 55.3.16.1	P160	L 33	# 73
McClellan, Brett	Solarflare			McClellan,	Brett	Solarflare		
Comment Type T	Comment Status D			Comment	Туре Т	Comment Status D		
TRANSMITTER sta The maxwait timer retrain may occur f	mer is reset only upon transition f ate" should also be reset on the trans rom the Link Up state (as in 1000 nd restarting autonegotiation.	ition from Send F	PCS Link OK so that a	symbo Pair A Page ⁻ every	l periods. is inverted every 158 specifies tha 16384 symbol pe		te the LDPC fram ner, the PCS sha	ne location. Il reset the scrambler
Suggested Remedy						plicit statement that the thes t statement that the LDPC fra		
	ner is reset only upon transition fr ate or Send PCS Link OK state.	om DISABLE 100	GBASE_T	Additic		desirable that the start of the	-	·
Response	Response Status 0			Suggested	l Remedy			
				Add th	e following text:			
Cl 55 SC 55.3. McClellan, Brett	2.2 P145 Solarflare	L 56	# 71	data m	node. If requested	at 256 symbol intervals defined by the link partner, the PCS	s will reset the tra	ining mode scrambler
Comment Type T	Comment Status D			every	16384 symbol pe	riods aligned with the 256 sy	mbol period inve	rsion on pair A.
	coding also takes into account the this mechanism, a PHY indicate			Notice <m*16< td=""><td></td><td>eating time intervals of 1638 , 2, 3,, the PMA training pa</td><td></td><td></td></m*16<>		eating time intervals of 1638 , 2, 3,, the PMA training pa		
loc_rcvr_status is r	now sent in the Info Field, not con	tinuously in the tr	aining sequence.	Response		Response Status O		
Suggested Remedy								
Change text to:				C/ 55	SC 55.4.2.4	P171	L 9	# 74
	ode an InfoField is transmitted at			McClellan,		Solarflare	23	# [4
for startup operation the link partner."	on. By this mechanism, a PHY ind	licates the status	of its own receiver to	Comment		Comment Status D		
Response	Response Status O				eter "remotelF" is			
				Suggested	l Remedy	emove the reference.		
Cl 55 SC 55.3. McClellan, Brett	8 P155 Solarflare	L18	# 72	Response		Response Status O		
Comment Type E Reference to the fi	Comment Status D le "gen_802.3an.txt" is akward wit	thout giving a loc	ation to find the file.					
Suggested Remedy	of where to find the file.	-						
Response	Response Status O							
,								

C/ 55 SC 55.6	P187	L 4	# 75	C/ 45 SC 45.2.1	.60 <i>P</i> 91	L19	# 77
/IcClellan, Brett	Solarflare			McClellan, Brett	Solarflare		
Comment Type E	Comment Status D			Comment Type T	Comment Status D		
reference to clause	22 should be clause 45				encoding for the register bits ap	pears to be a rem	nant from an ability
Suggested Remedy				register rather than a Also only 4 THP set	a status register. tings are defined (including byp	ass) so there are	too many bits defined.
change text to:	autonoive upp of the managem	ant functions area	ided by the MII	Suggested Remedy		,	,
Management Interf	s extensive use of the managem ace (Clause 45), and the commu by Auto-Negotiation (Clause 28)	unication and self-		Change register bit of 1.130.12:10 Reserved	definitions of 1.130.15:0 to: ed Value always 0, writes ignor	ed	
Response	Response Status O			1.130.9:8 Link Partn 00 = bypass 01 = SHORT	er THP setting		
C/ 45 SC 45.2. AcClellan, Brett	3.11.3 P102 Solarflare	L 54	# 76	10 = MEDIUM 11 = LONG 1.130.7:2 Reserved	Value always 0, writes ignored		
Comment Type T The LFER monitor Suggested Remedy	Comment Status D only detects error rate higher that	an 1E-4.		1.130.1:0 THP settir 00 = bypass 01 = SHORT 10 = MEDIUM 11 = LONG	ığ		
Change 1E-12 to 1	E-4.			Response	Response Status O		
Response	Response Status 0						
				C/ 45 SC 45.2.1	.61 P93	L 23	# <mark>78</mark>
				McClellan, Brett	Solarflare		
				Comment Type T	Comment Status D		
				The use of one-hot e register rather than a	encoding for the register bits ap a status register.	ppears to be a rem	nant from an ability
				Suggested Remedy			
				1.130.15:11 Reserve 1.130.10:8 Link part	definitions of 1.131.15:0 to: ed Value always 0, writes ignor ner TX power level tting with TX power level setting		0:8
				1.130.2:0 TX power	Value always 0, writes ignored level th TX power level setting = -2c		
				Response	Response Status O		

	D193 L29	# 79	CI 55 SC 55	5.4.6.1	P 175	L 28	# 81
Brown, Kevin Bro	badcom		McClellan, Brett		Solarflare		
Comment Type T Comment Statu	us D		Comment Type	т с	Comment Status D		
The phrase "at least 55 to 100 meters of C parameters need to ensure a specific dista make it unclear whether a 65 meters (for e	ance is always reliable. The	current phrasing	Variables Decor without being de		code IF_M and transition	_count are used	in the state machine
reliable.	example) link segment would	a de lit all cases de	Suggested Remedy				
Suggested Remedy			add the followin	g text to 55.	4.5.1:		
The transmisson parameters contained in					reports that the Slave ha		
10GBASE-T link segment consisting of at	t least 55 meters of Class E				er device. This variable ta		
esponse Response Statu	is O		Transition_to_P	CS_Trainin	O_Increase, Transition_t g, Transition_to_Slave_S	ilent, or NOT_O	K
			Decode IF S T	his variahle	reports that the Master h	as successfully	received and decoded
/ 55 SC 4.3.1 F	P172 L39	# 80	the InfoField fro	m the Slave	device. This variable take	es on the value of	contained in the
areljian, Albert Key	yEye Communicatio				O_Increase, Transition_t g, Transition_to_Slave_S		
omment Type T Comment Statu	us D		Transmon_to_F		g, mansition_to_Slave_S		N
Coefficient entries in the THP sets A(1), A 802.3an TF adopted requirement is 8-bit. uggested Remedy Replace coefficient entries in the THP sets follows:			InfoField sent by transition, the transition, the transition.	y the remote ansition cou	ble reports the value of the device. When the mess nter will denote the rema	age field contain	s a flag for a state
TOHOWS.					at the transition from PN		o PMA Training
A(1) = [1.78125 1.390625 0.515625 -0 0.796875 -0.609375 -0.359375 -0.140		-0.90625 -	Update from: De	ecode IF_S: S=Transition	=OK and Decode IF_M = _to_Training_Update and	ОК	Ŭ
A(1) = [1.78125 1.390625 0.515625 -0	0625 -0.03125 0 0 0 0]		Update from: De to: Decode IF_S	ecode IF_S: S=Transition raining_Upo	=OK and Decode IF_M = _to_Training_Update and	ОК	Ŭ
A(1) = [1.78125 1.390625 0.515625 -0 0.796875 -0.609375 -0.359375 -0.140 A(2) = [1.265625 0.375 -0.4375 -0.7812	0625 -0.03125 0 0 0 0] 25 -0.765625 -0.5 -0.140	625 0 0 0 0 0	Update from: De to: Decode IF_S Transition_to_T	ecode IF_S= S=Transition raining_Upc <i>R</i>	=OK and Decode IF_M = _to_Training_Update and late	OK d Decode IF_M = L	Ŭ
$ \begin{array}{l} A(1) = [1.78125 1.390625 0.515625 -0 \\ 0.796875 -0.609375 -0.359375 -0.140 \\ A(2) = [1.265625 0.375 -0.4375 -0.7812 \\ 0 0 0 0] \\ A(3) = [0.59375 -0.375 -0.625 -0.5156 \\ \end{array} $	0625 -0.03125 0 0 0 0] 25 -0.765625 -0.5 -0.1400 325 -0.25 0.09375 0.0781	625 0 0 0 0 0	Update from: De to: Decode IF_S Transition_to_T Response CI 55 SC 4.3	ecode IF_S: S=Transition raining_Upc <i>R</i> 3.1	=OK and Decode IF_M = _to_Training_Update and late esponse Status 0 	OK d Decode IF_M = L	
$A(1) = \begin{bmatrix} 1.78125 & 1.390625 & 0.515625 & -0.0796875 & -0.609375 & -0.359375 & -0.140 \\ A(2) = \begin{bmatrix} 1.265625 & 0.375 & -0.4375 & -0.7812 \\ 0 & 0 & 0 \end{bmatrix}$ $A(3) = \begin{bmatrix} 0.59375 & -0.375 & -0.625 & -0.5156 \\ 0 & 0 & 0 \end{bmatrix}$	0625 -0.03125 0 0 0 0] 25 -0.765625 -0.5 -0.1400 325 -0.25 0.09375 0.0781	625 0 0 0 0 0	Update from: De to: Decode IF_S Transition_to_T Response CI 55 SC 4.: Halder, Bijit Comment Type The proposed s the power back performance, in back off, transm	ecode IF_S: S=Transition raining_Upc <i>R</i> 3.1 T (ets of FIR a off policy. A particular th it distortion	=OK and Decode IF_M = _to_Training_Update and late esponse Status 0 P172 Plato Network	OK d Decode IF_M = <i>L</i> s ated without the j s is presented to HP in the presen- ill SNR margin, it	# 82 presence of AFEXT or quantify the ce of AFEXT, power t is not justified to
$A(1) = \begin{bmatrix} 1.78125 & 1.390625 & 0.515625 & -0.0796875 & -0.609375 & -0.359375 & -0.140 \\ A(2) = \begin{bmatrix} 1.265625 & 0.375 & -0.4375 & -0.7812 \\ 0 & 0 & 0 \end{bmatrix}$ $A(3) = \begin{bmatrix} 0.59375 & -0.375 & -0.625 & -0.5156 \\ 0 & 0 & 0 \end{bmatrix}$	0625 -0.03125 0 0 0 0] 25 -0.765625 -0.5 -0.1400 325 -0.25 0.09375 0.0781	625 0 0 0 0 0	Update from: De to: Decode IF_S Transition_to_T Response CI 55 SC 4.: Halder, Bijit Comment Type The proposed s the power back performance, in back off, transm burden all vende	acode IF_S: S=Transition raining_Upc R 3.1 T C ets of FIR a off policy. A particular the it distortion ers to imple	=OK and Decode IF_M = _to_Training_Update and late esponse Status O P172 Plato Network Comment Status D nd IIR THPs were calcula nd since then no analysis he SNR loss, for these TH Given the available sma	OK d Decode IF_M = <i>L</i> s ated without the j s is presented to HP in the presen- ill SNR margin, it	# 82 presence of AFEXT or quantify the ce of AFEXT, power t is not justified to
$A(1) = \begin{bmatrix} 1.78125 & 1.390625 & 0.515625 & -0.0796875 & -0.609375 & -0.359375 & -0.140 \\ A(2) = \begin{bmatrix} 1.265625 & 0.375 & -0.4375 & -0.7812 \\ 0 & 0 & 0 \end{bmatrix}$ $A(3) = \begin{bmatrix} 0.59375 & -0.375 & -0.625 & -0.5156 \\ 0 & 0 & 0 \end{bmatrix}$	0625 -0.03125 0 0 0 0] 25 -0.765625 -0.5 -0.1400 325 -0.25 0.09375 0.0781	625 0 0 0 0 0	Update from: De to: Decode IF_S Transition_to_T Response CI 55 SC 4. Halder, Bijit Comment Type The proposed s the power back performance, in back off, transm burden all vende Suggested Remedy	acode IF_S: S=Transition raining_Upc R 3.1 T (C ets of FIR a off policy. A particular the particular	=OK and Decode IF_M = _to_Training_Update and late esponse Status O P172 Plato Network Comment Status D nd IIR THPs were calcula nd since then no analysis he SNR loss, for these TH Given the available sma	OK d Decode IF_M = <i>L</i> s ated without the p s is presented to HP in the presen ill SNR margin, it ot proven to wor	# 82 bresence of AFEXT or quantify the ce of AFEXT, power t is not justified to k.

C/ 55 SC 55 Halder, Bijit	5.4.3.1	P172 Plato Network	L s	# 83		<i>Cl</i> 55 Halder, Bijit	SC 55.7.3.2.1	P199 Plato Netwo	<i>L</i> orks	# 85
The draft specif specified in D1. Suggested Remedy	ies the numb 4. The THP he total numb 5.	omment Status D ber of THP sets to be 16. specification is incomplet ber of THP sets to the sp esponse Status O	te.			made n <i>Suggested</i> 1. Repl The PS	AELFEXT is a c cormative for both <i>Remedy</i> ace the text on particular AELFEXT loss to ng duplex channel	Comment Status D ore requirement for succe the worst case limit line a age 199 line 55: between a disturbed duple els in other link segments	nd average limit I x channel in a link	segment and the
C/ 55 SC 55.4.3.1 P173 L # 84 Halder, Bijit Plato Networks Plato Networks Comment Type T Comment Status D The power back off policies based on received signal power suffers significant SNR loss due to variation in transmit power. As a consequence, these PBO policies fail to guarantee even a 1.5dB system margin. Moreover, the received signal power at the MDI is hard to				e	2. Add The Ps disturbi disturbe	the following text S AELFEXT loss ng duplex channe ed duplex channe	at the end of the section: between a disturbed duple els in other link segments el shall meet the limit defin 2+4-10log10(f/100) (dB) Response Status O	when averaged a	cross four pairs of the	
of the PBO polices of the PBO polices of the PBO polices of the po	cy. , erence to MI nal power.	ntely, and the lack of according to the lack o					<i>Type</i> T ANEXT is a core cormative for both	P197 Plato Netwo Comment Status D e requirement for success the worst case limit line a	ul 10GBASE-T op	

The PS ANEXT loss between a disturbed duplex channel in a link segment and the disturbing duplex channels in other link segments shall meet the limit defined by the equations:

2. Add the following text at the end of the section:

The PS ANEXT loss between a disturbed duplex channel in a link segment and the disturbing duplex channels in other link segments when averaged across four pairs of the disturbed duplex channel shall meet the limit defined by the equations: $PSANEXT_ave >= X1+1-10log10(f/100) (dB) \quad 1 <= f <=100$

>= X1+1 -15log10(f/100) (dB) 100<f<=500.

Response Status 0

Response

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

CI 44 SC 44.3	P 79	L 28	# 87	Cl 55 SC 4.3.1 P173 L24 # 91
Fellado, Jose	Teranetics			Tellado, Jose Teranetics
<i>Comment Type</i> T Informative round trip d	Comment Status D lelay value is TBD.			Comment Type T Comment Status D Received signal power at MDI is TBD
Suggested Remedy Replace with <=10 mic	rosec.			Suggested Remedy Replace with MDI received power for a nominal tx power of 4.2dBm and a nominal tx po The corresponding rx MDI dbm values for PBO of -2dB, -4dB, -6, -8, -10, -12 and -14
Response	Response Status O			should be replaced with -9.8, -8.8, -7.6, -6.4, -4.9, -3.3, -1.5
				Response Response Status O
C/ 44 SC 44.3 Tellado, Jose	P 79 Teranetics	L 29	# 88	
Comment Type T Informative round trip d	Comment Status D lelay value is TBD.			
Suggested Remedy Replace with 5 microse	ec (including 100m of cable).			
Response	Response Status O			
C/ 55 SC 55.4.5.2 Tellado, Jose	P 174 Teranetics	L18	# 89	
Comment Type T maxwait_timer is currer	Comment Status D ntly 950/750ms.			
Suggested Remedy Replace with 2 sec				
Response	Response Status O			
CI 55 SC	Р	L	# 90	
Tellado, Jose	Teranetics			
Comment Type T	Comment Status D THP filters below have been p	presented in gold	en 1 1104.	
••		0		
THP IIR coefs missing.				
THP IIR coefs missing. Suggested Remedy Adopt the following sub Long, H(D) = (1 - D^2) / Medium, H(D) = (1 - D^2)	oset of 3 THP IIRs / (1 – 64/32D + 42/32D^2 - 9/3 ^{\2}) / (1 - 13/8D + 21/32D^2) / (1 - 9/8D – 5/32D^2 + 21/64E	,		