Dawe, Piers	<i>P</i> Mellanox Tech	L nologies	# 143	C/ 00 SC 0 Healey, Adam	P 1 Broadcom Lto	L 1 d.	# 147
Comment Type E	<i>Comment Status</i> D be easier to use with unique p	-		Comment Type T	Comment Status D mitted on behalf of Michelle Tu	urner, Managing	Editor, IEEE-SA.
	numbered consecutively throug 001. Clause 115 could be mov <i>Response Status</i> O			should not be used ir necessary. I have als mandatory requireme publication prep. Witl Please see the instar	in NOTES (which are consider informative notes. Please cor o highlighted the areas when r ent and in many instances we w in that being said we don't wan nees below. I've also provided ing the verb to "should" or "ma	nsider changing t must is used. Typ will change "mus nt to do that sinc a few recommen	the verb to when pically "must" states a t" to shall during te it is in a NOTE.
C/ 00 SC 0	Р	L	# 23	List of instances and	recommendations are included	d in an attachme	ent.
Anslow, Pete	Ciena			SuggestedRemedy			
Comment Type E	Comment Status D			,	ve the use of "must" or "shall"	as appropriate.	
	rg/3/WG_tools/editorial/require are instances of "autonegotiati)		ıl has "auto-	Proposed Response	Response Status 0	L 35	# 30
SuggestedRemedy				Umnov, Alexander	Corning		
,	of "autonegotiation" to "Auto-N	legotiation"		Comment Type E	Comment Status D		
Proposed Response	Response Status O	-		page 47 in the curren	er mismatch. Contents list refe t version. Other sections have		
	Р		# 24	SuggestedRemedy When final version is	ready, update pages number i	in the contents	
0.02 00.15	I	L	# 24		ready, update pages number	in the contents	
	Ciena			Pronosed Response	Poononao Statua		
Anslow, Pete				Proposed Response	Response Status O		
Anslow, Pete Comment Type E	Comment Status D napper and Gray-coded should	all use a capital	"G" because the	Proposed Response	Response Status 0	L 14	# 44
Anslow, Pete Comment Type E Gray-mapped, Gray n name comes from Fra	Comment Status D napper and Gray-coded should	l all use a capital	"G" because the			L 14	# 44
Anslow, Pete Comment Type E Gray-mapped, Gray n name comes from Fra SuggestedRemedy	Comment Status D napper and Gray-coded should	·		C/ 1 SC 1.3	Р16	L 14	# [44
Anslow, Pete Comment Type E Gray-mapped, Gray n name comes from Fra SuggestedRemedy Change "gray" to "Gra	Comment Status D napper and Gray-coded should ank Gray	·		C/ 1 SC 1.3 Lusted, Kent	P16 Intel Comment Status D	L 14	# 44
Anslow, Pete Comment Type E Gray-mapped, Gray n name comes from Fra SuggestedRemedy	Comment Status D napper and Gray-coded should ank Gray ay" in 94.3.10.8 (2 instances) a	·		Cl 1 SC 1.3 Lusted, Kent Comment Type T reference to SFF-864 SuggestedRemedy	P16 Intel Comment Status D		# 44

C/ 1 SC 1.3 Grow, Robert	P 55 RMG Consultin	L 41 ng	# 47	C/ 1 SC 1.3 Grow, Robert	P 55 RMG (<i>L</i> 46 Consulting	# 49
	Comment Status D Message Formats" only shows: sentation of Trace Message Forr				es the current document: A stomer Installation Very-hig		
Update to current rev	vision, and resort per new docum	ient number.		SuggestedRemedy			
Proposed Response	Response Status 0			·	t revision, and resort per ne	w document number.	
				Proposed Response	Response Status	0	
C/ 1 SC 1.3 Grow, Robert	P 55 RMG Consultin	L 41 ng	# 46	C/ 1 SC 1.3 Grow, Robert	P 55	5 L 49 Consulting	# 50
51	Comment Status D s changed a lot of document nun	nbers. Most of	the ANSI documents	Comment Type T		8	
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy		ANSI webstore at lead on the do ed with the cited	search on ANSI/TIA ocument number. numbers.	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy		D 2014), Integrated Serv Metallic Loops for App	
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy Update to locatable d comments.	s changed a lot of document nun eferenced in this subclause. An y of the documents cited with the DDI documents cannot be locate	ANSI webstore at lead on the do ed with the cited	search on ANSI/TIA ocument number. numbers.	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy	R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on I ayer 1 Specification)	D 2014), Integrated Serv Metallic Loops for App w document number.	
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy Update to locatable d comments. Proposed Response	s changed a lot of document nun eferenced in this subclause. An y of the documents cited with tha DDI documents cannot be locate documents, some detailed updat <i>Response Status</i> O <i>P</i> 55	ANSI webstore at lead on the do ed with the cited es are included <i>L</i> 44	search on ANSI/TIA ocument number. numbers.	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy Update to curren	R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on l ayer 1 Specification) t revision, and resort per ner <i>Response Status</i> P56	D 2014), Integrated Serv Metallic Loops for App w document number. O	
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy Update to locatable d comments. Proposed Response	s changed a lot of document nun eferenced in this subclause. An y of the documents cited with tha DDI documents cannot be locate documents, some detailed updat <i>Response Status</i> O <i>P</i> 55 RMG Consultin <i>Comment Status</i> D ument title finds: ATIS-0600417.	ANSI webstore at lead on the do ed with the cited es are included <i>L</i> 44	# search on ANSI/TIA boument number. numbers. in additional # 48	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy Update to curren Proposed Response Cl 1 SC 1.3 Grow, Robert Comment Type T A search produce	R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on l ayer 1 Specification) t revision, and resort per ne <i>Response Status</i> <i>P</i> 56 RMG (D 2014), Integrated Serv Metallic Loops for App w document number. O L1 Consulting D 2015), Integrated Servi	# <u>51</u> ices Digital Network
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy Update to locatable d comments. Proposed Response Cl 1 SC 1.3 Grow, Robert Comment Type TR A search on the docu for Loop Transmissio	s changed a lot of document nun eferenced in this subclause. An y of the documents cited with tha DDI documents cannot be locate documents, some detailed updat <i>Response Status</i> O <i>P</i> 55 RMG Consultin <i>Comment Status</i> D ument title finds: ATIS-0600417.	ANSI webstore at lead on the do ed with the cited es are included <i>L</i> 44	# search on ANSI/TIA boument number. numbers. in additional # 48	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy Update to curren Proposed Response Cl 1 SC 1.3 Grow, Robert Comment Type T A search produce (ISDN) <emdash< td=""><td>R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on I ayer 1 Specification) t revision, and resort per ne Response Status P56 RMG (R Comment Status es: ATIS-0600605.1991(S2</td><td>D 2014), Integrated Serv Metallic Loops for App w document number. O L1 Consulting D 2015), Integrated Servi</td><td># <u>51</u> ices Digital Network</td></emdash<>	R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on I ayer 1 Specification) t revision, and resort per ne Response Status P56 RMG (R Comment Status es: ATIS-0600605.1991(S2	D 2014), Integrated Serv Metallic Loops for App w document number. O L1 Consulting D 2015), Integrated Servi	# <u>51</u> ices Digital Network
It looks like ANSI has cannot be found as re does not produce any Fibre Channel and FI SuggestedRemedy Update to locatable d comments. Proposed Response CI 1 SC 1.3 Grow, Robert Comment Type TR A search on the docu for Loop Transmissio SuggestedRemedy	s changed a lot of document nun eferenced in this subclause. An y of the documents cited with tha DDI documents cannot be locate documents, some detailed updat <i>Response Status</i> O <i>P</i> 55 RMG Consultin <i>Comment Status</i> D ument title finds: ATIS-0600417.	ANSI webstore at lead on the do ed with the cited es are included <i>L</i> 44 ng .2003(S2015), S	# search on ANSI/TIA boument number. numbers. in additional # 48	Comment Type T A search produce (ISDN) û Basic A Side of the NT (L SuggestedRemedy Update to curren Proposed Response CI 1 SC 1.3 Grow, Robert Comment Type T A search produce (ISDN) <emdash Specification) SuggestedRemedy</emdash 	R Comment Status es: ATIS-0600601.1999(R2 ccess Interface for Use on I ayer 1 Specification) t revision, and resort per ne Response Status P56 RMG (R Comment Status es: ATIS-0600605.1991(S2	D 2014), Integrated Serv Metallic Loops for App w document number. O L1 Consulting D 2015), Integrated Servi	# <u>51</u> ices Digital Network

C/ 1 SC 1.3 Grow, Robert	P 56 RMG Consultin	L 4	# 52	C/ 1 Grow, Rot	SC 1.3	P 56 RMG Consultin	L 25	# 55
Comment Type TR The document could SuggestedRemedy	Comment Status D not be found on the ANSI web s	tore with multi		<i>Comment</i> An AN Distrik	<i>Type</i> TR ISI web store so outed Data Inter	Comment Status D earch on TP-PMD produces: AN face (FDDI) - Token Ring Twiste) (formerly INCITS 263-1995 (R2	NSI INCITS 263 ad Pair Physica	
	necessary, updated reference in			Suggested Updat		zed document with new number.		
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/ 1 SC 1.3 Grow, Robert	P 56 RMG Consultin	L 7 g	# 53	C/ 1 Grow, Rob	SC 1.3	P 56 RMG Consultin	L 30 g	# 56
Comment Type TR Footnote 3 is possible introduction text, and	Comment Status D y a cut and paste with incomplete astm in the URL).	e editing error	(ANSI in the		not verify docu	Comment Status D ment name without having a log ETwork?) Either ATIS is inconsis		
SuggestedRemedy Delete the footnote.					document title	is capitalized (NETwork versus I y with line 33 is accurate.	Network to pro	duce acronym SONET
Proposed Response	Response Status O				Response	Response Status 0		
C/ 1 SC 1.3 Grow, Robert	P 56 RMG Consultin	L 23 g	# 54	<i>CI</i> 1 Grow, Rob	SC 1.3	P 56 RMG Consultin	L 38 g	# 57
Technology - Fibre C X3.230-1994 (R1999	Comment Status D earch produces: ANSI INCITS 2 hannel - Physical and Signaling)) (includes supplements)			CISPF	R 22 has been v R-32. This prob	Comment Status D withdrawn (2008 revision), IEC w ably isn't a problem for the 8.7.3 are deprecated but is an issue	3.2 and 9.9.7.2	1 citations because
SuggestedRemedy	<i>.</i> .			Suggester			101 10.0.2 oldu	
Update to current do	cument number.				-	of clause 15 (10BASE-F).		
Proposed Response	Response Status O			COllar				

Cl 1 SC 1.3 P 56 L 43 # 58 Grow, Robert RMG Consulting	Cl 1 SC 1.3 P 64 L 14 # 43 Lusted, Kent Intel
Comment Type T Comment Status D This revision does not appear to be available on the ETSI website as an historical	Comment Type T Comment Status D reference to SFF-8436 is out of date.
document. <i>SuggestedRemedy</i> Update to ETSI TS 101 270-1 V1.4.1 (2005-10), or we need to update the footnote for a place to get historical documents.	SuggestedRemedy Consider updating reference to Rev 4.8, October 31, 2013 Proposed Response Response Status O
Proposed Response Response Status O Cl 1 SC 1.3 P 57 L 12 # 59	Cl 1 SC 1.3 P 64 L 21 # 130 Dawe, Piers Mellanox Technologies
Grow, Robert RMG Consulting Comment Type TR Comment Status D	Comment Type T Comment Status D This reference may become unnecessary.
The cited document has been revised (more than once). The title of the historical version (on the IEC webstore) does not agree with this normative reference. We continue to cite this standard in recent clauses. Note depricated clause 23 includes year citations. Clause 40 cites the 1990 revision. Clause 55 cites 1996 as does clause 113 and 126.	SuggestedRemedy If we turn all the references to TIA-455-127-A into references to IEC 61280-1-3, remove this entry "TIA-455-127-A-2006, FOTP-127-A, Basic Spectral Characterization of Laser Diodes." but move footnote 23 to the next item.
SuggestedRemedy Preferred solution is to update to an undated reference with current title (IEC 60603-	Proposed Response Response Status O
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8- way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferrable alternative would be to add additional	C/ 1 SC 1.3 P 64 L 50 # 45 Lusted, Kent Intel
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8- way, unshielded, free and fixed connectors). Alternate, update reference and referencing	
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferrable alternative would be to add additional references for other revisions as has been done for the following fiber optic standards (this would require paying attention to the undated citations in various clauses). Proposed Response Response Status O	Lusted, Kent Intel Comment Type T Comment Status D Footnote 22 references specifications available at ftp://ftp.seagate.com/sff. In 2016, SFF Committee leaders transitioned the organizational stewardship to SNIA, to operate under a special membership class named Technology Affiliate, while retaining the longstanding technical focus on specifications in a similar fashion as all SNIA TWGs do. see
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferrable alterrnative would be to add additional references for other revisions as has been done for the following fiber optic standards (this would require paying attention to the undated citations in various clauses). Proposed Response Response Status O Cl 1 SC 1.3 P 60 L 19 # 60	Lusted, Kent Intel Comment Type T Comment Status D Footnote 22 references specifications available at ftp://ftp.seagate.com/sff. In 2016, SFF Committee leaders transitioned the organizational stewardship to SNIA, to operate under a special membership class named Technology Affiliate, while retaining the longstanding technical focus on specifications in a similar fashion as all SNIA TWGs do. see https://www.snia.org/sff
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferrable alternative would be to add additional references for other revisions as has been done for the following fiber optic standards (this would require paying attention to the undated citations in various clauses). Proposed Response Response Status O C/ 1 SC 1.3 P 60 L 19 # Grow, Robert RMG Consulting	Lusted, Kent Intel Comment Type T Comment Status D Footnote 22 references specifications available at ftp://ftp.seagate.com/sff. In 2016, SFF Committee leaders transitioned the organizational stewardship to SNIA, to operate under a special membership class named Technology Affiliate, while retaining the longstanding technical focus on specifications in a similar fashion as all SNIA TWGs do. see https://www.snia.org/sff SuggestedRemedy
7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferrable alternative would be to add additional references for other revisions as has been done for the following fiber optic standards (this would require paying attention to the undated citations in various clauses). Proposed Response Response Status 0 Cl 1 SC 1.3 P 60 L 19 #	Lusted, Kent Intel Comment Type T Comment Status D Footnote 22 references specifications available at ftp://ftp.seagate.com/sff. In 2016, SFF Committee leaders transitioned the organizational stewardship to SNIA, to operate under a special membership class named Technology Affiliate, while retaining the longstanding technical focus on specifications in a similar fashion as all SNIA TWGs do. see https://www.snia.org/sff

Proposed Response

Response Status 0

C/ 1 SC 1.3 Anslow, Pete	Р 64 Ciena	L 50	# 71	C/ 1 SC 1.4.41 Dawe. Piers	9 P 93 Mellanox Techno	L 21	# 129
				,		logies	
Comment Type E	Comment Status D			Comment Type T	Comment Status D		
Industry Association)	as transitioned its activities to TA (Technology Affiliate) and	the document rep	ository at		international standards where they as a clear definition of RMS spectra		le and adequate. IEC
ttp://ttp.seagate.com/s www.snia.org/sff/spec	ff/ only contains pointers to th	e new storage lo	cation at	SuggestedRemedy			
SuggestedRemedy Change footnote 22 fro "SFF specifications ar	om: e available at ftp://ftp.seagate			127-A)." to "A meas "The square root of	e of the optical wavelength range as sure of the optical wavelength range the second moment of the power c otical signal. (See IEC 61280-1-3.)"	e as defined listribution a	by IEC 61280-1-3." or
"SFF specifications ar (http://www.snia.org/sf	e available from the Storage I f/specifications)."	Networking Indust	try Association	Proposed Response	Response Status O		
Proposed Response	Response Status 0						
				C/ 1 SC 1.5 Grow, Robert	P 98 RMG Consulting	L 18	# 61
/ 1 SC 1.4.289 hompson, Geoff	P 84 GraCaSI S.A.	L 42	# 146	Comment Type E	Comment Status D		
omment Type TR	Comment Status D			Alphanumeric order	violation		
	of "link section" is not precise	as to its boundar	ies. The definition of	SuggestedRemedy			
link section was alway	s intended to be precisely equ	ivalent to that of	a link segment for a	Move 2B before 2-F	PAM.		
	cisely parallel to that of a link ion should use the same or p			Proposed Response	Response Status O		
uggestedRemedy				C/ 1 SC 1.5	P 99	L 25	# 62
Change the CURREN from the PSE to the P	T TEXT in the draft from: 1.4.: D.	289 link section:	The portion of the link	Grow, Robert	RMG Consulting		
	EXT: 1.4.289 link section: The E Power Interface (PI) and th		edium connection	Comment Type E Alphanumeric order	Comment Status D		
		CTDTI.		SuggestedRemedy			
This would be implement	entation of Maintenance Requ	est #1309.		Move DGD before I	DIC.		
	Response Status O			Proposed Response	Response Status O		

C/ 1 SC 1.5	P102	L 31	# 63	C/ 30 SC 30.1.1 P341 L6 # 38
Grow, Robert	RMG Consultin	ig		Hoglund, David Johnson Controls
Comment Type E Alphanumeric order violat	Comment Status D			Comment Type E Comment Status D No space between sentences
SuggestedRemedy Move RMS before ROFL.				SuggestedRemedy "subsequent additions to this standard. Implementations"
Proposed Response	Response Status O			This might be just a defect of letter placement during PDF creation. The file is SECTION TWO.
				Proposed Response Response Status O
21 SC 21.6.3	P 42	L 54	# 92	
idaka, Yasuo	Fujitsu Lab. of	Americ		C/ 30 SC 30.2.2.2.1 P347 L 24 # 39
omment Type E	Comment Status D			Hoglund, David Johnson Controls
	s values and/or comments o contains values and/or com		e 28. In clause 31 and	Comment Type E Comment Status D
uggestedRemedy				Unclosed appositive in a complex sentence reduces readability
Change "the sixth column	n" to "the fourth or sixth colu	mn".		SuggestedRemedy
Proposed Response	Response Status O			"For DTE MACs, with regard to reception-related error statistics, a hierarchical order has been established …" The file is SECTION TWO.
7 25 SC 25.4.7 IcClellan, Brett	P 227 Marvell	L 43	# 34	There is also an intrusive solution: "With regard to reception-related error statistics, a hierarchical order for DTE MACs has been established such that when multiple error statuses can be associated with one frame, only one status is returned to the LLC."
<i>Comment Type</i> ER link parameters are specif	Comment Status D ified in 25.4.9 not 25.4.8			Proposed Response Response Status O
SuggestedRemedy				C/ 30 SC 30.5.1.1.18 P443 L8 # 93
change "25.4.8" to "25.4.9	9"			Hidaka, Yasuo Fujitsu Lab. of Americ
Proposed Response Response Status O			Comment Type T Comment Status D Each element of this array contains a count of uncorrectable FEC blocks, not corrected FEC blocks. This error was corrected in P802.3bs TF by comment i-12 to P802.3bs D3.0. We may apply the same change.	
				SuggestedRemedy
				SuggestedRemedy Change "corrected" to "uncorrectable".

C/ 30 SC 30.5.1.1.18

C/ 30	SC 30.5.1.1.25	P 444	L 48	# 1	C/ 45	SC 45.2	P53	L 40	# 40
Anslow, Pet	le	Ciena			Hoglund,	David	Johnson Contro	IS	
	ext added by P802.3bq:	ment Status D			<i>Commen</i> Subje	<i>t Type</i> E ect-verb agreeme	Comment Status D		
	attribute can be derived f		etrain count regis	iter"	Suaaeste	edRemedy			
	o the" should be "from the	e			00		registers are cleared"		
SuggestedF	•					fie is SECTION F			
Change	e: "from to the" to: "from t	the"			Proposed	d Response	Response Status O		
Proposed R	Response Respo	nse Status O			-,				
		5.64			C/ 45	SC 45.2.1	P 58	L 43	# 25
C/ 30	SC 30.9.1.1.14	P 481	L 33	# 14	Anslow, F	Pete	Ciena		
Anslow, Pet	te	Ciena			Commen	t Type E	Comment Status D		
Comment T	ype E Comr	nent Status D			The I	Register name co	olumn in Table 45-3 should not ir	nclude "regist	er" or "registers" at the
	cludes " a maximum in				end o	of the register na	mes.	-	-
	stent with the rest of the rest of the rest of the rest greater than 100		space as a thous	ands separator for	Suggeste	edRemedy			
	0	000			Rem	ove "registers" f	rom the rows for 1.162 through 1	.164 and 1.16	65, 1.166
SuggestedF							m the rows for 1.200, 1.201, and		
Change	e "100000" to "100 000"				Proposed	d Response	Response Status O		
Proposed R	Response Respo	nse Status O							
					C/ 45	SC 45.2.1.8	4 P131	L 2	# 17
C/ 31B	SC 31B.4.6	P 761	L 21	# <u>1</u> 5	Anslow, F	Pete	Ciena		
Anslow, Pet	te	Ciena			Commen	t Type E	Comment Status D		
Comment T	ype E Comr	ment Status D			There	e is no text in 45.	2.1.84 that refers to Table 45-64	Ļ	
The for	mat of PICS items TIM2	through TIM11 is u	nusual and theref	ore confusing.	Suggeste	edRemedy			
SuggestedF	Remedy					•	of bits in the MultiGBASE-T fas	t rotrain statu	s and control register is
00	ach item TIM2 through TI	M11 its own row in	the table with a S	ubclause entry of		n in Table 45–64			s and control register is
31B.3.7 Remove pause_ Apply a content	7. e the subrow: "Delay fror time, to cessation of tran footnote to the Value/Co as deleted feature: "Dela	m receiving valid PA nsmission", "31B.3.7 omment entry for ea ay from receiving va	AUSE command, 7", "Measured as ach item TIM2 thr alid PAUSE comr	with nonzero value for described". ough TIM11 with same	Proposed	d Response	Response Status O		
	or pause_time, to cessati support column for TIM2 t			o "Yes []"					
Proposed R	Response Respo	nse Status O							

C/ 45 SC 45.2.1.84

C/ 45 SC 45.2.1.143.1 P 179 L 34 # 7 Anslow, Pete Ciena Ciena </th <th>CI 45 SC 45.2.3.15.3 P 235 L 19 # 2 Anslow, Pete Ciena Ciena</th>	CI 45 SC 45.2.3.15.3 P 235 L 19 # 2 Anslow, Pete Ciena Ciena
Comment Type E Comment Status D This text introduced by 802.3bn says "and their reflective registers" which should be "and their respective registers". Same issue in 45.2.1.143.5	Comment Type T Comment Status D This says " defined by counter lfer_count in 126.3.7.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6.2 for 10GBASE-T," but "lfer_count" is not defined in 55.3.6.2, it is defined in 55.3.7.2
SuggestedRemedy Change "reflective" to "respective" here and in 45.2.1.143.5	SuggestedRemedy Change "55.3.6.2" to "55.3.7.2"
Proposed Response Response Status O	Proposed Response Response Status O
C/ 45 SC 45.2.1.143.3 P179 L 47 # 8	Cl 45 SC 45.2.3.15.4 P 235 L 28 # 3 Anslow, Pete Ciena
Comment Type T Comment Status D This text introduced by 802.3bn says "the variable US_CID defined in 102.2.3.1.1". While "US_CID" is mentioned in 102.2.3.1.1, it is defined in 102.2.7.3. SuggestedRemedy Change "102.2.3.1.1" to "102.2.7.3" Proposed Response Response Status O	Comment Type T Comment Status D This says " defined by counter errored_block_count in 126.3.7.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6.2 for 10GBASE-T," but "errored_block_count" is not defined in 55.3.6.2, it is defined in 55.3.7.2 SuggestedRemedy Change "55.3.6.2" to "55.3.7.2" Proposed Response Response Status
C/ 45 SC 45.2.3 P 216 L 52 # 18	C/ 45 SC 45.2.3.25.12 P 248 L 9 # 19 Anslow, Pete Ciena
Comment Type E Comment Status D In Table 45-168, the names for registers 3.42 and 3.43 do not match the names in 45.2.3.18 and 45.2.3.19	Comment Type T Comment Status D The bit numbers and lane numbers are incorrect in 45.2.3.25.12
SuggestedRemedy In Table 45-168, change "test pattern" to "test-pattern" in the rows for 3.42 and 3.43 Proposed Response Response Status O	SuggestedRemedy Change "bit 3.53.8" to "bit 3.53.0" in 2 instances Change "lane 0" to "lane 8" in 2 instances Proposed Response Response Status O

C/ 45 SC 45.2.3.25.12

C/ 45 SC 45.2.7.11.1 Anslow, Pete	P 317 Ciena	L 20	# 16	C/ 49 SC 49.2.4 .9 Hidaka, Yasuo	9 P 400 Fujitsu Lab.	L 28 of Americ	# 94
Comment Type E "in contained in 55.6.2" st SuggestedRemedy Change "in contained in 5				Comment Type T The phrase "within an any character" implic SuggestedRemedy	Comment Status D ny character of the block" is m ates "on any bit of character". character of the block" to "on a <i>Response Status</i> O	nisleading or incor	
Cl 45 SC 45.2.7.13.6 Anslow, Pete Comment Type T This text introduced by 80 as defined in 113.6.1," to contain more information SuggestedRemedy Change "113.6.1" to "113 Proposed Response	but 113.6.1 is "Support for on about EEE than 113.6.1	r Auto-Negotiatio		Global_PMD_transm 86 PMD global transm PMD_global_transmi 92 Global PMD trans Global_PMD_transm SuggestedRemedy	mit disable function, Global Pl it_disable mit disable function, Global P it_disable	ansmit disable, MD transmit disab MD transmit disab	ble,
This text introduced by 80 T as defined in 113.6.1, to contain more information	Ciena Comment Status D 2.3bq says "If the device ." but 113.6.1 is "Support	for Auto-Negotia		Proposed Response	ID" and "global" be made con: <i>Response Status</i> O	sistent? Similary	for signal detect.
SuggestedRemedy Change "113.6.1" to "113	1.3.3"						

Proposed Response Response Status **0**

C/ 53 SC 53.4.7

CI 55 SC 55.1.3	P 689	L 41	# 76	CI 55	SC 55.2	.2.3.2	P 698	L 26	# 78
Zimmerman, George	CME Consultin	ıg, Inc.		Zimmerma	an, George		CME Consult	ing, Inc.	
55-4 '10GBASE-T ser interface', and is not u	Comment Status D (link_status) is not shown conn vice interfaces', is not listed in s used in the PCS state diagram of 55-3. (comment 110, 802.3bq	subclause 55.2 on referenced i	.2 'PMA service n the PCS related text,	synch also b covere	ubclause sta ronously wit e conveyed ed, if so the	ates that 'Th h every trans by this mess simplest app		well as SYMB_4 55.2.2.3.1). Sho	equest (SYMB_4D) D, the value ALERT car uldn't this case also be
SuggestedRemedy					UNITDATA		omment 116, 802.3b	q 3rd WG recirc)	1
to the 'PCS TRANSMIT & TI [2] Remove the 'link_s [3] Remove the 'link_s to the	status' signal from the connection RANSMIT CONTROL' block in status' signal from figure 55-5 'F status' signal from the connection RFACE' in figure 55-21 'PMA re	figure 55-3 'Fur PCS reference on above the 'L	nction block diagram'. diagram'. INK MONITOR' block	with every PMA_	est that 'The transmit clo	ck cycle.' sh request syn	ates PMA_UNITDATA ould be changed to re chronously with every ponse Status O	ead 'The PCS ge	nerates
[4] Úpdate the variable variables' to read 'The	e definition for 'link_status' in su link_status parameter set by F h the PMA_LINK.indicate primi	MA Link Monit		Cl 55 Zimmerma	SC 55.3 an, George	.2.1	P 703 CME Consult	L 52 ing, Inc.	# 79
however 'PMA_LINK.i primitive, are referenced in subo diagrams. Instead this primitive i	Response Status O .3 P 694 CME Consultin Comment Status D .1 that 'The effect of receipt of thi ndication', nor the 'link_status' p clause 55.3.6.2 'State diagram s generated by the Link Monito tt 115, 802.3bq 3rd WG recirc)	is primitive is s parameter com parameters' for	municated by this the PCS state	55.3.6 117) Suggested Sugge	ubclause st 5.2.2 'Variab dRemedy	ates that 'PC es' defines p ets pcs_rese	_	an. (802.3bq 3rd	however subclause WG recirc comment sets pcs_reset = true
SuggestedRemedy									
	effect of receipt of this primitive egotiation uses this primitive to 8.'.								
described in Clause 2									

C/ 55 SC 55.3.2.1

C/ 55 SC 55.3.2.2	P704 L3	# 80	C/ 55	SC 55.3.2.2.2		L 52	# 81
Zimmerman, George	CME Consulting, Inc.		Zimmermar	-	CME Consult	ing, inc.	
While this subclause states t diagram (Figure 55-16) and bit orderin address the operation of wha PMA_TXMODE.indication pa normal (SEND_N) and sendi this in paragraphs six, seven and statements, nor does it appentiate this	omment Status D that the PCS transmit function shan ing (Figures 55–6 and 55–8) I don at appears to be a three way mult arameter tx_mode which selects to arg zeros (SEND_Z). There does I nine of this subclause, however ar there are any related shall stat my 'shall' statements in relation to 2.3bq 3rd WG recirc)	't believe that either of these iplexor controlled by the between training (SEND_T), appear to be a description of they do not contain 'shall' ements elsewhere. Based on	set to the valu PMA_L recirc, o Suggested Sugges	tx_symb_vector ue ALERT (see s JNITDATA.reque comment 133) <i>Remedy</i> st the text ' the ed to read ' the	Comment Status D parameter of the PMA_UNI subclause 55.2.2.3.1). As a r st message is sent it will ha PMA_UNITDATA.request m PMA_UNITDATA.request p Response Status O	esult of that the ve the value AL nessage is set to	next time the ERT. (802.3bq 3rd WG o the value ALERT.' be
SuggestedRemedy	. ,		r roposou r	100001100			
change to read ' has the value SEND [2] The text ' has the value to read ' has the value SEND [3] The text 'In the normal me the value SEND_N, and the PCS PMA_TXMODE.indication m mode of operation, and the PCS Tran [4] The PICS be updated to a	SEND_Z, PCS Transmit passes _Z, PCS Transmit shall pass a ve SEND_T, PCS Transmit generate _T, PCS Transmit shall generate ode of operation, the PMA_TXMC S Transmit function uses a' to r essage has the value SEND_N, t asmit function shall use a add these three new shall statement sponse Status O	ector of zeros'. es sequences' be changed sequences'. DDE.indication message has ead 'If a he PCS is in the normal	parame PCS_s operations state. If parame and 'fal Since the PCS R Received	Type E use 55.3.7.1 'State tatus is provided onal t is only true if blo eter is defined as ise'. his is a subclaus the only definition ECEIVE block, s e	P717 CME Consult Comment Status D tus' seems to be the only lo where it states that 'Indicate ock_lock is true and hi_lfer i having the values 'OK' and e of 55.3.7 'PCS manageme on. Instead, since Figure 55- uggest this definition be pro	cation where the es whether the F s false.'. In addi 'NOT_OK' (see ent' suggest this 3 shows PCS_3	PCS is in a fully tion the PCS_status 55.2.2.6.1) and not 'tru is not the best place to status sourced from the
The phrase "within any chara	P712 L17 Fujitsu Lab. of Americ comment Status D acter of the block" is misleading o		the PC deasse the PC	st that in subclau S Receive proce rted, S_status parame	se 55.3.2.3 'PCS Receive fu ss continuously accepts blo eter of the PMA_PCSSTATL rocess continuously accepts	cks.' be change IS.request primi	d to read ' hi_lfer is
any character" implicates "or SuggestedRemedy Change "within any characte	n any bit of character". Ir of the block" to "on any characte	er within the block".	Proposed F		Response Status O	DIOCKS.	

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/ 55 SC 55.3.2.3

C/ 55 SC 55.3.6.2.2 P 724 L 50 # 75 immerman, George CME Consulting, Inc.	C/ 55 SC 55.4.5.1 P753 L 29 # 84 Zimmerman, George CME Consulting, Inc. Employed and the second and the secon				
Comment Type T Comment Status D "where the lfer_cnt exceeds 16" lfer_cnt is defined as only counting up to a maximum of 16. A similar comment was made and accepted on 802.3bq and 802.3bz (802.3bq initial sponsor ballot comment i-80) SuggestedRemedy	Comment Type E Comment Status D The definition for the 'link_control' variable states 'This variable is defined in 28.2.6.2' however IEEE Std 802.3 subclause 28.2.6.2 defines the PMA_LINK.request primitive. (802.3bq 3rd WG recirc, comment 144)				
change "exceeds" to "reaches"	SuggestedRemedy				
Proposed Response Response Status O	Suggest that variable description be changed to read 'The link_control parameter generated by Auto-Negotiation and passed to the PMA via the PMA_LINK.request primitive (see 55.2.1.1).				
C/ 55 SC 55.3.6.3 P 729 L 24 # 83 immerman, George CME Consulting, Inc.	Proposed Response Response Status O				
since for the following reasons there are not related to the state diagram. [1] The message 'PMA_UNITDATA.indication' and the parameter 'rx_symb_vector' are not referenced in the PCS state diagrams. The input to Figures 55-18 and 55-19 'PCS 64B/65B Receive state diagram' are 'rx_coded' which is the 'Input to decode function 65B block' in Figure 55-7 'PCS Receive bit ordering'. As can be seen in that figure, there are a number of processes that have already been performed on the parameter 'rx_symb_vector' from the message 'PMA_UNITDATA.request' before 'rx_coded' is presented as the input to the PCS state diagram.	Comment Type E Comment Status D Missing PICS for mtc and stc (comment 185 on 2nd WG recirc 802.3bq) SuggestedRemedy Add PICS for mtc and stc. See clause 113 for text Proposed Response Response Status O				
[2] The message 'PMA_UNITDATA.request' and the parameter 'tx_symb_vector' are not referenced in the PCS state diagrams. The output of Figures 55-16 and 55-17 'PCS 64B/65B Transmit state diagram' are 'tx_coded' which is the 'Output of encoder function 65B	C/ 55 SC 55.4.5.2 P757 L 11 # 86 Zimmerman, George CME Consulting, Inc. Comment Type E Comment Status D				
block' in Figure 55-6 'PCS transmit bit ordering'. As can be seen in that figure, there are a number of processes that have to be performed before the parameter 'tx_symb_vector' for the	Missing PICS for lpi_refresh_rx_timer, link_fail_sig_timer, and fr_maxwait_timer. (comment 186 on 2nd WG recirc 802.3bq)				
message 'PMA_UNITDATA.request' is generated. [3] 'PCS_status' is not a message, but instead a parameter of a message, regardless it is	SuggestedRemedy Add PICS as per comment. See clause 113 for text				
not generated or used by the by the PCS state diagrams.	Proposed Response Response Status O				
SuggestedRemedy					
Delete the subclause 55.3.6.3 'Messages'.					

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/ 55 SC 55.4.5.2 Page 12 of 30 8/25/2017 4:57:28 PM

C/ 55 SC 55.4.6		L 20	# 87	CI 55 SC 55.12		L 11	# 89
Zimmerman, George	CME Consulti	ng, Inc.		Zimmerman, George	CME Consult	ting, Inc.	
Comment Type E maxwait_time_done 802.3bq) SuggestedRemedy	Comment Status D should be maxwait_timer_done	e (comment 228	on 2nd WG recirc	paragraph. (Should there be? A	Comment Status D node 7 operations" as mandator Il other text in this subclause for ecirc, comment 183)	-	•
per comment				SuggestedRemedy	,		
Proposed Response	Response Status O				Df 55.5.2 P765 L38 from "This m tail in 55.3.3."	node reuses the ´	10GBASE-T scrambler
C/ 55 SC 55.4.6	.5 P 763	L 15	# <u>8</u> 8	"This mode shall re	use the 10GBASE-T scrambler	defined in detail	in 55.3.3."
Zimmerman, George	CME Consulti	ng, Inc.		Proposed Response	Response Status 0		
recirc 802.3bq) SuggestedRemedy per comment Proposed Response	Response Status O			Cl 55 SC 55.12 Zimmerman, George Comment Type E Option INS is used, SuggestedRemedy	.9 P 808 CME Consult Comment Status D but not defined under options (a	-	# 9 <u>1</u>
	P776 CME Consulti Comment Status D cate" should be "PMA_CONFIG. 2nd WG recirc, comment 230)		# 90	Include option INS *INS Insta	in 55.12.2, see 113.12.2 for text llation / cabling 113.7 clude installation practices and c <i>Response Status</i> O	O Yes	
SuggestedRemedy see comment				C/ 69 SC 69.3 Anslow, Pete	Р 433 Ciena	L 15	# 70
Proposed Response	Response Status O			<i>Comment Type</i> E There are two table	Comment Status D s numbered Table 69-3		
					override from the second Table 2.6. Correct the autonumber forr		
					< =0>< =0>< =0>< >< >< >< >< >< >< >< >< >< >< >< >< >		fieadings in Clause of

C/ 69 SC 69.3 Page 13 of 30 8/25/2017 4:57:28 PM

C/ 69B SC 69B.4.3 Healey, Adam	P 818 Broadcom Ltd.	L 47	# 125	C/ 73 SC 73.6.4 Marris, Arthur	P 516 Cadence Desi	<i>L</i> 41 ign Syste	# 68
Comment Type E Comment S Typo "expresssed".	Status D			Comment Type TR Implement maintenand	Comment Status D ce request 1283		
SuggestedRemedy Change to "expressed".				SuggestedRemedy Delete 3rd paragraph o	of 73.6.4 and replace with the	following note:	
Proposed Response Response S	Status O				ons of this standard prohibited al backplanes with PHYs that		
C/ 69B SC 69B.4.6.4 Healey, Adam	P 823 Broadcom Ltd.	L 52	# 126	Proposed Response	Response Status 0		
Comment Type E Comment S Typo "characteristcs". SuggestedRemedy Change to "characteristics".	Status D			Cl 73 SC 73.6.5 Anslow, Pete Comment Type T	P 517 Ciena Comment Status D	L3	# [13
Proposed Response Response S	Status O			(F2:F3:F0:F1) is encod	ent changed "FEC (F0:F1) is e ded in bits D44:D47". The " for "FEC (F2:F3:F0:F1)"		
C/ 73 SC 73.6.4	P 516 Ciena	L 12	# 12	SuggestedRemedy Change: "FEC (F2:F3:	:F0:F1)" to: "FEC (F2, F3, F0,	F1)"	
Anslow Pete	e.ea			Proposed Response	Response Status O		
,	Status D			Filipuseu Respuise	Response Status U		
Comment Type T Comment S 73.6.4 "Technology Ability Field" says field containing" but the 802.3by an correcting this text.	s: "Technology Ab			Cl 78 SC 78.1 Hoglund, David	P 32 Johnson Conti	L 11 rols	# 41
Comment Type T Comment S 73.6.4 "Technology Ability Field" says field containing" but the 802.3by an correcting this text.	s: "Technology Ab mendment change [24:0]) is a 25-bit v	ed this field to b wide field conta	be A[22:0] without	Cl 78 SC 78.1 Hoglund, David Comment Type E	P 32	rols	
73.6.4 "Technology Ability Field" says field containing" but the 802.3by an correcting this text. SuggestedRemedy Change: "Technology Ability Field (A[s: "Technology Ab mendment change [24:0]) is a 25-bit v a 23-bit wide field	ed this field to b wide field conta	be A[22:0] without	Cl 78 SC 78.1 Hoglund, David Comment Type E Extra space: "in to" ins SuggestedRemedy	P 32 Johnson Contr <i>Comment Status</i> D stead of "into" at line break bet to and out of the lower level'	rols ween lines 11 a	

CI 78	SC 78.1.4	P 38	L 6	# 65	CI 78	S
Grow, Ro	bert	RMG Consul	ting		Grow, Rob	pert
items obvic interf list w port f	es 78-1. 78-2 and bus. When amendrous. We need a faces are no long hich has been th	Comment Status D 178-4 are growing large enough nents 10 through 12 are merg consistent sort order, and as of er linked to only one specific e approach to date problemat g resulting in longer blocks of d	jed, the problems operational data i speed. This ma tic. Also, within a	will become more rates multiply, kes a speed ordered speed, the number of	Comment Like T are dis secon While when	able splaye d colu this l not se
Suggeste	dRemedy	sing the rules for 1.4 sort orde	er.		Suggested Where merge	e mul
Proposed	l Response	Response Status 0			Proposed	Resp
CI 78	SC 78.2	P 40	L 35	# 66	CI 78	S
Grow, Ro	bert	RMG Consul	ting		Ran, Adee	Э
Commen	t Type ER	Comment Status D			Comment	Туре
there port 1	are two port type types using the s	t been consistent in how timir es sharing values in the same ame values are in separate ro	over row, yet in the n ows. At lines 21,	ext row, two additional 41 and 46, individual	The te PHY t Capat	timing
•	21	even when adjacent port types er, then values should be listed			This is specif	
00	edRemedy rows with multipl	e port types in the first colum	n into separate ro	ows.	802.3 error.	bs us

Proposed Response

Response Status **O**

CI 78	SC 78.5	P 55	L 48	# 67
Grow, Rol	bert	RMG Consulting		

с ER Comment Status D

e 78-2, this table is inconsistent in how different port types with identical values aved. This table adds the compliation that identical values are correlated with the olumn rather than the first column. (Compare rows at 31 with the row at line 48.)

listing is more compact in space used, as the table grows, finding port types sorted by name will become increasingly difficult.

medy

ultiple cases exist for a port type, the column 1 should only list one port type, in a II, but each case having its own row for a given port type as is done at line 31.

sponse Response Status 0

CI 78	SC 78.5.1	P 56	L 44	# 103
Ran, Adee	9	Intel		

Comment Status D be T

here says "The LPI signaling can operate through the XGXS with no change to the ng parameters described in Table 78–4 or the operation of the Data Link Layer es negotiation described in 78.4."

ot true: the PHY timing parameters are changed, since the XGXS adds delays as in Table 78-4.

used different text for the equivalent XS and it can be used here to correct the

SuggestedRemedy

Change to "The LPI signaling can

operate through the XGXS with the PHY timing parameters modified by inclusion of the XGXS as described in Table 78-4. There is no change in the operation of the Data Link Layer Capabilities negotiation described in 78.4".

Optionally add a table footnote to the XGXS row in Table 78-4 similar to footnote b.

Proposed Response Response Status 0

CI 78 SC 78.5.1

C/ 78 SC 78.5.2 P 57 L # 104 Ran, Adee Intel	CI 79 SC 79.3.1.4 P 63 L 30 # 106 Ran, Adee Intel
Comment Type T Comment Status D The text here says "The LPI signaling can operate across these interfaces with no change to the PHY timing parameters described in Table 78–4 or the operation of the Data Link Layer Capabilities negotiation described in 78.4." This is not true: the PHY timing parameters are changed, since the AUIs add delays as specified in Table 78–4 footnote b. SuggestedRemedy Change to "The LPI signaling can operate across these interfaces with the PHY timing parameters modified as described in Table 78–4 footnote b. There is no change in the operation of the Data Link Layer Capabilities negotiation described in 78.4". Proposed Response Response Status O	Comment Type T Comment Status D This subclause title refers to "rules". The only rule here is "An LLDPDU should contain no more than one MAC/PHY Configuration/Status TLV." As written, this is not a rule but rather a recommendation, and an unclear one. There is no information to implementors on what to do if a received LLDPDU does contain more than one TLV of the same type. If two TLVs contain different information then there is ambigui in the interpretation. Looking at the meaning of this TLV, there is no sense in sending more than one, especial if the information in two TLVs within the same LLDPDU is different. In the PICS this appears as an option (status "O"), which is even more confusing; "should is a recommendation, not an option ("may" is an option).
Cl 78 SC 78.6.3 P 59 L # 105 Ran, Adee Intel Intel # 105 Comment Type E Comment Status D There is no PICS item for normative requirement to support fast wake TLV for 40G and above (P42 L26). SuggestedRemedy SuggestedRemedy Add appropriate item(s) to the table. Proposed Response Proposed Response Response Status O	It seems that this "should" should be a "shall" and the PICS status should be "M". Same comment applies in multiple subclauses within clause 79. <i>SuggestedRemedy</i> Change "should" to "shall" here and in ths similar subclauses of clause 79, and update the PICS tables accordingly. Optionally, add a note that previous revisions of this standard had a recommendation instead of a normative requirement (with editorial license). <i>Proposed Response</i> Response Status O

C/ 79 SC 79.3.1.4

C/ 80 SC 80.1.3	P 82	L 30	# 107	C/ 81 SC 81.5.3	3.4 P130	L 22	# 97
Ran, Adee	Intel			Hidaka, Yasuo	Fujitsu Lab.	of Americ	
for implementation con	Comment Status D I may also be implemented v venience. (Running 100 Gb/s			Comment Type T The status of FS1 i XGE is not defined.	Comment Status D s "XGE:M" that is mandatory wh	nen option XGE is	s supported, but option
challenging and not a ty	pical implementation).			SuggestedRemedy			
introduciton (44.1.4) do The remedy used in 80 SuggestedRemedy Append to list item a:	bes not list the 25GMII as an es list XGMII, but only when 2.3bs (116.1.2) may also be	it is a physical used here.	observable interface.	Item: XGE	ank	ptions as follows	:
"Physical instantiations Alternatively, delete iter	of these interfaces may use n a.	other data-path	i widths."	Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 81 SC 81.5.3 Anslow, Pete	8.7 P132 Ciena	L 8	# 6
C/ 81 SC 81.5.3.2 Hidaka, Yasuo	Р 129 Fujitsu Lab. o	L 6 f Americ	# 96		Comment Status D RRIER_STATUS response to I		
Comment Type E	Comment Status D				ause is "81.4.2" but this does no ain discussion of CARRIER_ST		
The status of PL1 is "R mandatory, not optiona	S:M" that is mandatory when .	option RS is s	upported, but RS is	SuggestedRemedy Change "81.4.2" to	"81.1.7.3"		
Same for other PICS ite	ems in this clause.			Proposed Response	Response Status O		
SuggestedRemedy Change "RS:M" to "M"	n the status column, and rer	nove "N/A []" in	the support column.				
Apply the same change FS15, FS16, LF1 throu	e to PL1 through PL13, DS1 t gh LF5.	through DS4, F	S3, FS5, FS7, FS13,				

C/ 81 SC 81.5.3.7

C/ 82 SC 82.2.3.6 Trowbridge, Steve	<i>P</i> 143 Nokia	L 38	# 37	<i>Cl</i> 82 Anslow, P		82.3.1	P 162 Ciena	L 21	# 26
Comment Type T Since the signal order presumably an invalid standard that would te of 82.2.3.5 (c) does no Table 82-1 SuggestedRemedy	Comment Status D ed set is reserved for INCITS block if received on an Etherr Il you what to do with this bloc ot label it as an invalid block s	net PHY (and the ck if it were valid) ince it is a contro	ere is nothing in the). However, the wording ol code that is listed in	Comment The ti variat Suggeste	<i>Type</i> tle of Ta ble mapp d <i>Remed</i> ge "MDI0	oing" /y O/PMD" to	Comment Status D "MDIO/PMD status variable o "MDIO/PCS" Response Status O	mapping" shou	ld be "MDIO/PCS status
for the Signal ordered	set. OIF uses O code 0x5 for of Table 82-1 and footnote b. Response Status O			C/ 82 Hidaka, Y Comment	asuo	82.7.3 T	P 173 Fujitsu Lab. o Comment Status D	L 13 f Americ	# <u>9</u> 9
any character" implica	P 144 Fujitsu Lab. o <i>Comment Status</i> D y character of the block" is mi- ites "on any bit of character".		# 98	XLGN Suggeste	III logica dRemed ge "XLG	ll interface y MII" to "C	logical interface, not XLGMI a. GMII" in the row of XGE100. <i>Response Status</i> O	-	e, because XGE40 is
SuggestedRemedy Change "within any ch Proposed Response	naracter of the block" to "on ar Response Status O	y character with	in the block".	<i>Cl</i> 82 Anslow, P	ete	82.7.4	Р 174 Сіепа	L 8	# 127
C/ 82 SC 82.3.1 Anslow, Pete Comment Type E	P 161 Ciena Comment Status D	L 45	# 29	colum Same	PICS pro in. issue ir		Comment Status D les in 82.7.4 do not have the 33.7, 84.11, 85.13, 86.11.3, 8 .3		
The title of 82.3.1 "PM Also, the last sentence PMD status variables variables to PCS statu SuggestedRemedy	ID MDIO function mapping" sh e of 82.3.1 (Page 162, line 1) is shown in Table 82–11." sho is variables is shown in Table S" in the title of 82.3.1 and in	"Mapping of MDI ould be "Mapping 82–11."	O status variables to of MDIO status	83D.6 "M" cl "O" cl "Som	7.4, 79.5 6.4, and nange th nange th ething:M	5.6, 83.7, 126.12.3 e Suppor e Suppor " change	84.11, 85.13, 86.11.3, 89.1 for items with status of: t entry to "Yes []" t entry to "Yes [] No []" the Support entry to "Yes [] the Support entry to "Yes []	N/A []"	.11.3, 94.6.4.2, 83A.7,
Proposed Response	Response Status 0			Proposed	Respon	se	Response Status O	-	

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

C/ 82 SC 82.7.4 Page 18 of 30 8/25/2017 4:57:29 PM

X 83 SC 83.5.10 P 192 L 18 # 27 Inslow, Pete Ciena	C/ 83D SC 83D.4 P 620 L 41 # 102 Hidaka, Yasuo Fujitsu Lab. of Americ
Comment Type E Comment Status D "Ln9_PRBS_Rx_test_error_counter" should be "Ln9_PRBS_Rx_test_err_counter"	Comment Type T Comment Status D C_b is not a COM parameter. It should be C_p.
SuggestedRemedy Change "Ln9_PRBS_Rx_test_error_counter" to "Ln9_PRBS_Rx_test_err_counter"	SuggestedRemedy Change "C_b" to "C_p".
Proposed Response Response Status O	Proposed Response Response Status O
C/ 83D SC 83D.3.3.2 P 619 L 46 # 101 Iidaka, Yasuo Fujitsu Lab. of Americ	Cl 85 SC 85.8.3.3 P 232 L 53 # 108 Ran, Adee Intel
Comment Type T Comment Status D	Comment Type T Comment Status D
There are no such variables as "Request_eq_cm1" and "Request_eq_c1", but there are variables "Requested_eq_cm1" and "Requested_eq_c1" that indicate the "requested" values of Local_eq_cm1 and Local_eq_c1, respectively.	"must" here should really be a "shall", it is not an unavoidable situation. <i>SuggestedRemedy</i> Change to "shall".
SuggestedRemedy	-
Change "Request_eq_cm1 and Request_eq_c1 indicate the request values" to "Requested_eq_cm1 and Requested_eq_c1 indicate the requested values".	Proposed Response Response Status O
Proposed Response Response Status O	C/ 85 SC 85.8.3.3 P233 L1 # 109 Ran, Adee Intel
C/ 83D SC 83D.4 P 620 L 29 # 137	Comment Type T Comment Status D
Dawe, Piers Mellanox Technologies	The text here defines "The normalized amplitude" of the three coefficients, but subclause
Comment Type E Comment Status D	85.8.3.3.1 refers to the coefficients themselves (not normalized amplitudes), while 85.8.3.3.2 refers to normalized amplitudes, and 85.8.3.3.3 again does not. Since these for
One of these tables has a different title to the others (and one doesn't say "values" because it lists the parameters not the values - that's OK):	subclauses all discuss the same coefficients, this can be quite confusing for the reader.
Table 83D-6Channel Operating Margin parameters Table 93-8COM parameter values Table 93A-1COM parameters Table 110-11COM parameter values	There is no reason to call this a normalized amplitude of the coefficient; it is really the coefficient value. (a coefficient has no amplitude, and "normalized amplitude" is used for very different things elsewhere).
Table 111-8COM parameter values	This comment also applies in 92.8.3.5.1 through 92.8.3.5.4.
uggestedRemedy	SuggestedRemedy
Change Table 83D-6Channel Operating Margin parameters to Table 83D-6COM parameter values or change three to Channel Operating Margin parameter values, 93A-1 to Channel	Change "The normalized amplitude of coefficient c(-1) is the value of" to "Coefficient c(-1 is defined as the value of". Change similarly for the other coefficients.
	In 85.8.3.3.2, delete the 3 instances of "the normalized amplitude of".
Operating Margin parameters	
Operating Margin parameters Proposed Response Response Status O	Apply similarly in clause 92.

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 85	Page 19 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 85.8.3.3	8/25/2017 4:57:29 PM
SORT ORDER: Clause, Subclause, page, line			

CI 85 SC 85.8.3.3	.3 P 233	L 27	# 110	C/ 85	SC 85.8.4.2.1	P 240	L 9	# 111
Ran, Adee	Intel			Ran, Adee		Intel		
Comment Type T	Comment Status D			Comment T	ype E	Comment Status D		
	ons in this clause on the "minir			Typo in	figure text: "PC	G"		
are not defined.	ım steady state differential out	put voitage" - sin	ce these parameters	<i>Suggestedl</i> Change	Remedy to "PGC"			
unequalized state (see voltage with a long rur	arameter is "Transmitter DC ar e 85.8.3.3, paragraph after ite n is governed by c(0)+c(-1)+c(of that in clause 85 (unlike clau	m 6). In other set 1) and in fact the	tings, the output	Proposed F	lesponse	Response Status 0		
				C/ 86	SC 86.5.7	P 272	L 44	# 139
	spect of the implemented coens of all coefficients (e.g. their			Dawe, Piers		Mellanox Te	chnologies	
T 1::				Comment T		Comment Status D		
	oplies to 92.8.3.5.5 (where the / in preset state) and 93.8.1.5.			Functio names		nave underscores like this (see line 42), altho	ugh functional variable
The suggested remed	ly is based on the text in claus	e 136.		Suggested	,			
SuggestedRemedy						as opposed to the variable i change "The PMD_global		
Change						function". If not, change it		
	and an an end of the state of the second state							
	ent range or restrictions place			Similarl	y in 52.4.7, 53.4	1.7, 68.4.7, 87.5.7, 88.5.7, 8	39.5.6, 95.5.7, 112	2.5.6.
	age or the maximum peak-to-			Similarl Proposed F	-	I.7, 68.4.7, 87.5.7, 88.5.7, 8 Response Status 0	39.5.6, 95.5.7, 112	2.5.6.
differential output volta	age or the maximum peak-to-	peak differential o	output voltage"		-		39.5.6, 95.5.7, 112	2.5.6.
differential output volta To		peak differential o	output voltage"	Proposed F	esponse	Response Status 0		
differential output volta To "based on the range of Alternatively, change	age or the maximum peak-to- of that coefficient or the combi to "based on the coefficient ra	peak differential c	output voltage" ents."		SC 86.5.7		L 50	# <u>140</u>
differential output volt To "based on the range c	age or the maximum peak-to- of that coefficient or the combi to "based on the coefficient ra	peak differential c	output voltage" ents."	Proposed F Cl 86	SC 86.5.7	Response Status 0	L 50	
differential output volta To "based on the range of Alternatively, change	age or the maximum peak-to- of that coefficient or the combi to "based on the coefficient ra tial output voltage".	peak differential c	output voltage" ents."	Proposed F C/ 86 Dawe, Piers Comment T	SC 86.5.7	Response Status 0 P 272 Mellanox Te	L 50 chnologies	
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses	age or the maximum peak-to- of that coefficient or the combi to "based on the coefficient ra tial output voltage".	peak differential c	output voltage" ents."	Cl 86 Dawe, Piers Comment 1 the PM Suggested	SC 86.5.7 SC 86.5.7 ype E D may set the P Remedy	Response Status O P272 Mellanox Te Comment Status D	L 50 chnologies le to one	# [<u>140</u>
differential output volta To "based on the range c Alternatively, change peak-to-peak different	age or the maximum peak-to- of that coefficient or the combi to "based on the coefficient ra tial output voltage". 92 and 93. <i>Response Status</i> O	peak differential c	output voltage" ents."	CI 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM	SC 86.5.7 SC 86.5.7 D may set the P Remedy D may set the P D may set the P	Response Status O P272 Mellanox Te Comment Status D PMD_global_transmit_disab	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# [<u>140</u>
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses Proposed Response C/ 85 SC 85.8.3.4 Ran, Adee	age or the maximum peak-to-p of that coefficient or the combination to "based on the coefficient ra- tial output voltage". 92 and 93. <i>Response Status</i> O	beak differential c	output voltage" ents." s on the maximum	CI 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM	SC 86.5.7 SC 86.5.7 Sype E D may set the P Remedy D may set the P D may set PMD y in 87.5.7, 88.5	Response Status O P272 Mellanox Te Comment Status D MD_global_transmit_disab	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# [<u>140</u>
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses Proposed Response Cl 85 SC 85.8.3.4 Ran, Adee Comment Type E Tab positions are inco	age or the maximum peak-to- of that coefficient or the combi- to "based on the coefficient ra- tial output voltage". 92 and 93. Response Status O P235 Intel Comment Status D prrect, creating no white space	beak differential c nation of coefficie nge or restriction <i>L</i> 34	ents." s on the maximum # 112	Cl 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM Similar	SC 86.5.7 SC 86.5.7 Sype E D may set the P Remedy D may set the P D may set PMD y in 87.5.7, 88.5	Response Status O P 272 Mellanox Te Comment Status D PMD_global_transmit_disab PMD_global_transmit_disable to 5.7, 89.5.6, 95.5.7, 112.5.6,	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# <u>140</u>
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses Proposed Response C/ 85 SC 85.8.3.4 Ran, Adee Comment Type E Tab positions are inco tabulation. This repea	age or the maximum peak-to- of that coefficient or the combi- to "based on the coefficient ra tial output voltage". 92 and 93. Response Status O P235 Intel Comment Status D	beak differential c nation of coefficie nge or restriction <i>L</i> 34	ents." s on the maximum # 112	Cl 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM Similar	SC 86.5.7 SC 86.5.7 Sype E D may set the P Remedy D may set the P D may set PMD y in 87.5.7, 88.5	Response Status O P 272 Mellanox Te Comment Status D PMD_global_transmit_disab PMD_global_transmit_disable to 5.7, 89.5.6, 95.5.7, 112.5.6,	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# [<u>140</u>
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses Proposed Response Cl 85 SC 85.8.3.4 Ran, Adee Comment Type E Tab positions are inco tabulation. This repea	age or the maximum peak-to-p of that coefficient or the combi- to "based on the coefficient ra- tial output voltage". 92 and 93. Response Status O P235 Intel Comment Status D prrect, creating no white space its in many other equations in	beak differential c nation of coefficien nge or restriction <i>L</i> 34 b after "Insertion_ this clause.	ents." s on the maximum # <u>112</u> loss(f)" and incorrect	Cl 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM Similar	SC 86.5.7 SC 86.5.7 Sype E D may set the P Remedy D may set the P D may set PMD y in 87.5.7, 88.5	Response Status O P 272 Mellanox Te Comment Status D PMD_global_transmit_disab PMD_global_transmit_disable to 5.7, 89.5.6, 95.5.7, 112.5.6,	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# <u>140</u>
differential output volta To "based on the range of Alternatively, change peak-to-peak different Apply also in clauses Proposed Response Cl 85 SC 85.8.3.4 Ran, Adee Comment Type E Tab positions are inco tabulation. This repea	age or the maximum peak-to- of that coefficient or the combi- to "based on the coefficient ra- tial output voltage". 92 and 93. Response Status O P235 Intel Comment Status D prrect, creating no white space	beak differential c nation of coefficien nge or restriction <i>L</i> 34 b after "Insertion_ this clause.	ents." s on the maximum # <u>112</u> loss(f)" and incorrect	Cl 86 Dawe, Piers Comment 7 the PM Suggested the PM or the PM Similar	SC 86.5.7 SC 86.5.7 Sype E D may set the P Remedy D may set the P D may set PMD y in 87.5.7, 88.5	Response Status O P 272 Mellanox Te Comment Status D PMD_global_transmit_disab PMD_global_transmit_disable to 5.7, 89.5.6, 95.5.7, 112.5.6,	<i>L</i> 50 chnologies le to one le variable to one o one (as in 92.7.6	# <u>140</u>

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/ 86 SC 86.5.7

Dawe, Piers	P 272 Mellanox Techno	L 50 blogies	# 141	<i>Cl</i> 91 Hidaka, Ya	SC 91.5.2.6 suo	P 383 Fujitsu Lab	L 8 of Americ	# 100
Comment Type E Co Function names don't have u names do. It's not obvious to lane - it's not done in the sub SuggestedRemedy If we don't, change "The PMI number in the range 0:n-1) is Insert "(where i represents th	omment Status D underscores like this (see I o me that we have to defin oclause heading (line 1) D_transmit_disable_i func s" to "The PMD lane-by-lar	line 1), although fi te the function se tion (where i repre ne transmit disabl	parately for each esents the lane e function is".	Comment ⁻ The ali lanes " Suggested	<i>Type</i> T gnment marker 1, 5, 9, 13, and <i>Remedy</i> e "0, 5, 9, 13, ar	Comment Status D payloads transmitted on FE 17" and not PCS lanes "0, ad 16" to "1, 5, 9, 13, and 1 <i>Response Status</i> O	EC lane 1 should (5, 9, 13, and 16".	correspond to PCS
Proposed Response Res	sponse Status O			<i>Cl</i> 91 Ran, Adee	SC 91.5.2.7	Р 384 Intel	L 1	# 113
C/ 86 SC 86.8.4.1 Dawe, Piers	P 282 Mellanox Techno	L 6 plogies	# 145	Comment ⁻ Equation	<i>Type</i> E on is truncated f	Comment Status D rom above		
they are available and adequ SuggestedRemedy Change TIA-455-127-A to IE maintained SMF clauses suc Proposed Response Res	C 61280-1-3 (and in the P	ICS 86.11.4.4). \$	Similarly in other	Proposed I C/ 91 Slavick, Je	SC 91.5.3.3	Response Status 0 P 387 Broadcom I	<i>L</i> 33 .td	# [<u>7</u> 3
	P 307	L 13	# 128		r clauses we wil	Comment Status D I sub-heading optional feat	ures and 803.cd is las 2 optional feat	

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/ 91 SC 91.5.3.3 Page 21 of 30 8/25/2017 4:57:29 PM

C/ 91 SC 91.5.4.2	P 393	L 12	# 69	CI 92	SC 92.7.8	P 416	L 32	# 114
Marris, Arthur	Cadence Desigr	Syste		Ran, Adee		Intel		
21	Comment Status D			Comment		Comment Status D		
Improve implementation of reference in doing this.	f maintenance request 1299	. Use 802.3cd	draft 2.1 as a			D function (as noted in the to se, the wording "adjacent Pl		
uggestedRemedy				This s	ubclause may b	e considered out of place. T	here is no loopba	ck subclause in optical
2) Add fec_optional_states	_bad_count definition to 91.5 variable to 91.5.4.2.1 Varia definition after fec_lane as f	bles	ers	PMDs If the N	. In 802.3cd it w	as decided not to have a loc idered important, they can b	opback subclause	in the electrical PMDs.
Boolean variable that is tru	ie if the optional states are in as supported" to Table 91–3-			Also a	pplies in similar	subclauses of 93, 110, and	111.	
mapping	s supported to Table 91–3-			Suggested	lRemedy			
4) Add 91.6.6 renumbering				Chang	e "adjacent PM	A" to "PMA".		
91.6.6 FEC_optional_state This variable is set to true	es when the optional states in t	he FFC syncl	pronization state	Consid	der deleting this	subclause and moving the	notes to the appro	priate PMA clauses
diagram are implemented.	This variable is mapped to			Proposed	0	Response Status 0		p
(1.201.7). 5) Add new bit to 45.2.1.10)7 RS-FEC status register (F	Register 1.201)	Toposed	neoponeo	Nesponse Status		
45.2.1.107 FEC optional s	tates supported (1.201.7)			C/ 92	SC 92.8.3	P 419	L 25	# 138
When read as a one, bit 1. implements the optional	201.7 indicates that the RS	FEC describe	ed in Clause 91	Dawe, Pier	ſS	Mellanox Te	echnologies	
states in Figure 91–8. Whe	en read as a zero, bit 1.201.	7 indicates that	at the optional states	Comment	Туре Е	Comment Status D		
are not implemented.						It easier to use (finding spec		
Proposed Response F	Response Status O				e the initialisms TDP, SMSR and	in tables and in subclause h d so on.	leadings, as the o	ptical clauses do for
				Suggested	lRemedy			
X 92 SC 14.4	P 449	L	# 32			d in tables 93-4, 83D-1 and	94–13.	
lempa, Michael	UNH IOL				der changing 7 Transmitter o	utput noise and distortion		
Comment Type E	Comment Status D					oise-and-distortion ratio (SN	NDR)	
	"SNDR shall be greater that			so tha	t the term appea	ars in the contents: similarly	for 93.8.1.6 and 9	4.3.12.7.
inconsistent with other trar	egardless of equalizer setting nomitter tests such as EOJ, etting" in the text as well as t	EBUJ and ET	y absent. This is UJ where they define	Proposed	Response	Response Status 0		
uggestedRemedy								
	"Greater than or equal to 26	dB regardles	s of transmit					

Proposed Response Response Status **0**

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

C/ 92 SC 92.8.3 Page 22 of 30 8/25/2017 4:57:29 PM

C/ 92 SC 92.8.3.8.2 P 427 L 1 # 21 Anslow, Pete Ciena	C/ 92 SC 92.10.5 P 435 L 48 # 22 Anslow, Pete Ciena
Comment Type E Comment Status D Equations 92-12 to 92-16, 92-18, and 92-19 use a dot as a multiply sign which is not in accordance with the IEEE-SA Standards Style Manual.	Comment Type E Comment Status D "." missing at the end of the first sentence of 92.10.5
SuggestedRemedy Change all instances to a multiply sign	SuggestedRemedy Add the "."
Proposed Response Response Status O	Proposed Response Response Status O
C/ 92 SC 92.8.4.4 P 428 L 37 # 134	C/ 92 SC 92.10.7.1 P437 L1 # 115 Ran, Adee Intel
Dawe, Piers Mellanox Technologies Comment Type T Comment Status D Should some of the improvements that 802.3by made be taken back to clauses 92 and 93?	Comment Type T Comment Status D Equation (92-31) uses the cascade() function, which is only defined in annex 93A, but there is no cross reference.
SuggestedRemedy	Comment also applies to 92.10.7.2.
Proposed Response Response Status O	SuggestedRemedy Append to the first paragraph of 92.10.7:
C/ 92 SC 92.8.4.4 P 429 L 17 # 135 Dawe, Piers Mellanox Technologies 135 Comment Type T Comment Status D The text in 92.8.4.4.3 says " should be set to the value that results in the COM value	"The channel path calculations use the function cascade() defined in 93A.1.2.1." Alternatively, add a definition of cascade() (refernce to 93A.1.2.1) in the "where" text following equations 92-31, 92-32, and 92-33. Proposed Response Response Status O
given in Table 92–8 when calculated". So these table entries for COM are reference or target values for setting up the test, like most of the other entries in this table. They can't be maxima (allowing any lower value) because then any receiver could be made to fail, however good it is.	C/ 93 SC 93.8.2.3 P 474 L 41 # 136 Dawe, Piers Mellanox Technologies
SuggestedRemedy	Comment Type T Comment Status D
Delete "(max)" from after "COM". Add it after "RS-FEC symbol error ratio" Proposed Response Response Status O	The text in 93C.2 items 7 and 8 say "determine the receiver noise level, sigma_bn, required to achieve the COM value specified in the PMD clause that invokes this method" and "adjust it so that it equals sigma_bn determined in step 7.". So these table entries for COM are reference or target values for setting up the test. They can't be maxima (allowing any lower value) because then any receiver could be made to fail, however good it is. Table 83D-5 has got it right.
	SuggestedRemedy
	Show that they are not maxima, e.g. by straddling the min and max columns or using a "Target" columns. Similarly for tables 110-6, 110-7, 110-8, 111-4, 111-5, 111-6 and 94-15.
	Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 93
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 93.8.2.3
 8/25/2017 4:57:29 PM

 SORT ORDER: Clause, Subclause, page, line
 SC
 93
 8/25/2017 4:57:29 PM

C/ 93A SC 93A.1 P 687 L 32 # 132 Dawe, Piers Mellanox Technologies 132	C/ 93A SC 93A.2 P 696 L 35 # 116 Ran, Adee Intel				
Comment Type T Comment Status D The parameter called "Continuous time filter, zero frequency f_z" causes confusion because it isn't a zero frequency except when g_DC is zero, when it isn't interesting. Unlike "Continuous time filter, pole frequencies fp_1 fp_2" which really are pole frequencies. See Eq 93A-22. Further, the value of f_z in each COM table is the same as f_p1 in the same table. SuggestedRemedy If we might use f_z in a future specification, rename it to "Continuous time filter, zero parameter f_20" in each COM table and Eq 93A-22. If that is not likely, remove the rows in the COM tables, and change f_z to f_p1 in Eq 93A-22. Proposed Response Response Status O	Ran, Adee Intel Comment Type T Comment Status D The parameter beta was added to equation 93A–46 to fix an error (missing factor 2) in to original equation. With the current quation, correct accounting for transition time requires that beta be 2 and this should be stated explicitly by every clause that invokes COM. This equation is used with the default beta=1 only in two cases - when 93C.2 is invoked either 93.8.2 or 83D.3.3.1, which do not state a value for beta This creates an incorrect calibration of the text, that would better be fixed. In all other cases, beta is specified as 2. Even if we prefer not to change existing clauses, It would be better to use a correction factor in the exception, not in the normal case.				
	SuggestedRemedy [Option 1] If we agree to apply a change that would fix the incorrect calculation in clause 93 and annex 83D: In equation 93A-46, change beta to 2, and in the paragraph above it delete "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method" Remove beta from all references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision). [Option 2] If we keep the clause 93 and annex 83D calculation unchanged: Change "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method" to "beta is 2 unless defined otherwise for the Physical Layer specification that invokes this method", and add exceptions to use beta=1 in 83D.3.3.1 ar				

Remove beta from the other references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision).

Proposed Response Response Status **0**

C/ 93A SC 93A.2

C/ 94 SC 94	P 487	L 4	# 131	CI 97	SC 97.9.1	P 189	L 10	# 64
Dawe, Piers	Mellanox Tec	hnologies		Grow, Rober	t	RMG Consult	ing	
Comment Type T	Comment Status D			Comment Ty	,	Comment Status D		
100GBASE-KP4's tim	e has passed.			The mai	ntenance requ	lest changes are incomplete.	With the change	e to the paragraph
	with the usual wording: NOTE e xxx 201x, maintenance cha			good. U		e, Clause 96, 97, and 115 hav he variious PICS items derive clauses.		
this clause. Proposed Response	Response Status O			Clause s correct.	96 has a majo	r option AUTO, and in 96.11.4	.9 ES2 is also op	otional. This seems
	.5 P 118	L 16	# 36	Clause 9 to be co		or option for its 97.11.13 ES1,	which has a Sta	tus of M. This needs
McClellan, Brett	Marvell	<i>L</i> 10	# 30		15 has a maj in the Suppor	or option AE, with 115.14.15 t t.	out Status being i	mandatory, with a
Comment Type ER typo in the figure text	Comment Status D "80B/ 80B/81B"					es not have the same paragra 262, uses a may and therefor		
SuggestedRemedy change "80B/ 80B/81I	2" to "808/818"			SuggestedR				
Proposed Response	Response Status O			The min	imal change v	vould be to change 97.11.13 S	Status to O and S	Support to Yes, N/A.
				For cons	sistency, 115.	14.15, E3, Status should be cl	nanged to O.	
					uses with a sh	xt in subclause 104.8.1 to rea nall when required by the appli		
				Proposed Re	esponse	Response Status O		
				CI 98	SC 98.1.2	P 207	L 17	# 117
				Ran, Adee		Intel		
				ر <i>Comment T</i> In Figure		Comment Status D sublayer is labeled "AN2". An	nd GMII is labele	d "GMII1"
						tne notes and should be in su	perscript (see Fig	gure 91-7).
				<i>SuggestedR</i> Change	-	these numbers to superscript.		
				0				

C/ 98 SC 98.1.2

			-	-	. ,				
<i>Cl</i> 98 Ran, Adee	SC 98.2.1.1.3	P 209 Intel	L 36	# 118	<i>Cl</i> 98 Ran, Adee	SC 98.5.1	P 220 Intel	L 33	# 120
	t specifies "bit s	Comment Status D equence" with the numebrs mapping of bits to electrical				ntrol and link_	Comment Status D status are per PMD/PMA. ⁻ h a suffix [x].	They appear with	_[HCD] in Figure 98-7, sc
To add t	to the confusion ng to Figure 98-6	, later it says "an end delimit 6 the end delimiter is an elec	er that consists	of a logical 0 bit". But	SuggestedF Append	Remedy I _[x] to the va	riable names.		
SuggestedR	,				Proposed R	esponse	Response Status O		
	"bit sequence"	to "sequence".							
Change	"logical 0 bit" to	e "electrical 0" or "zero voltag	e".						
Proposed Re	esponse	Response Status 0							
<i>Cl</i> 98 Hoglund, Da	SC 98.2.4.3	P 215 Johnson Conti	L 1 Tols	# 42					
		Comment Status D e is a word or defined entity,	but context sug	gests that it an entity					
SuggestedR	Remedy								
"Next Pa logical z		n ends when both ends of a l	ink segment se	t their Next Page bits to					
Proposed Re	esponse	Response Status O							
<i>CI 98</i> Ran, Adee	SC 98.2.4.3.2	P 216 Intel	L 44	# 119					
<i>Comment Ty</i> "Will" is context.	used here as a	Comment Status D normative requirement. The	next paragraph	uses "shall" in a similar					
SuggestedR Change	<i>Remedy</i> "will" to "shall"								
Proposed Re	esponse	Response Status 0							

CI 98 SC 98.5.1

C/ 98 SC 98.5.5 P 227 L 8 # 148 Zimmerman, George CME Consulting, Inc. Employed and the second and t	C/ 99 SC 99.1 P 239 L 52 # 121 Ran, Adee Intel
Comment Type T Comment Status D late Figure 98-8 has several typos. On 4 transitions (5 places) an OR (+) is indicated for state transitions when the condition should be an AND (*) - line 8, 14,21 (&22) and line 28. Clause 98 is based on Clause 73. There are some important differences but figure 73-9 shows the expected behavior for the state transitions that are common between them. (see figures attached as zimmerman_3cj_01_0817.pdf showing Figures 73-9 and 98-8). On 4 transition branches, "*" (AND) operators, appear to have been replaced with "+" (OR) operators. I can only conclude this was a typo made on the implementation of comment 316 going	Comment Type E Comment Status D The text here is taken from 802.3br which was an amendment, but now it is a revision of the standard. SuggestedRemedy Change "this amendment" to "this standard". Check whether this footnote is still correct and relevant. Proposed Response Response Status O
from Draft 2.0 to Draft 2.1, which remained uncaught, for the following reasons: 1. The original contribution that proposed the state diagram had these as "*" (mcclellan_3bp_03_1114_%20Autoneg_baseline_text_proposal_v0p4.pdf, page 25) 2. The proposal was implemented as "*" in draft 1.1 (the first place this showed up): (see e.g., page 88 of D1.1), through d 2.0, but change in D 2.1 when the figure was redrawn based on comment 316 to change the font size, and were unchanged since then. 3. There are no comments on draft 2.0 to change the logic of the transitions on Figure 98- 8, or in connection with these variables, based on an electronic search of the D2.0 comment resolution report.	C/ 101 SC 101.3.2.2 P 319 L 50 # 9 Anslow, Pete Ciena Ciena Ciena P <td< td=""></td<>
uggestedRemedy	SuggestedRemedy Change "49.2.5" to "49.2.4"
Line 8: Change "transmit_mv_end_done + remaining_ack_cnt = done" to "transmit_mv_end_done * remaining_ack_cnt = done" on transition from TRANSMIT DELIMITER TAIL to WAIT 1)	Proposed Response Response Status O
Line 14: Change "complete_ack = true + transmit_mv_start_done" to "complete_ack = true * transmit_mv_start_done" on transition from TRANSMIT DELIMITER HEAD to TRANSMIT REMAINING ACKNOWLEDGE Lines 22 & 23 (2 instances): Change "complete_ack = false + transmit_ability = true + transmit_mv_start_done" to "complete_ack = false * transmit_ability = true * transmit_mv_start_done" on transition from TRANSMIT DELIMITER HEAD to TRANSMIT ABILITY Line 27: Change "transmit_mv_end_done + remaining_ack_cnt = not_done" to "transmit_mv_end_done * remaining_ack_cnt = not_done" on transition from TRANSMIT	C/ 102 SC 102.4.1.8 P 449 L 29 # 10 Anslow, Pete Ciena Ciena # 10 Comment Type E Comment Status D # 10 In this text (LinkUpRdy) introduced by 802.3bn "or as describe in 102.4.4" should be "or as described in 102.4.4" SuggestedRemedy
DELIMITER TAIL to WAIT 2. Proposed Response Response Status O	Change "or as describe in 102.4.4" to "or as described in 102.4.4"Proposed ResponseResponse StatusO

C/ 102 SC 102.4.1.8

C/ 103 SC 103.4.4.		L 10	# 11		C 105.1.2	P 561	L 13	# 122
nslow, Pete	Ciena			Ran, Adee		Intel		
omment Type T	Comment Status D			Comment Type		Comment Status D		
In item MP17 introduct 802.3bn amendment)	Isolated numbers in the text should be spelled out. The text "4 lane" is also inconsistent with the rest of this list. SuggestedRemedy							
the 802.3 revision, the forest green font. Als								
uggestedRemedy	Change "4 lane" to "four-lane".							
Change "74.2.2.4" to In Value/Comment ch	"77.2.2.4" nange: "MAC Control interface priority over other clients (see			Proposed Resp		Response Status O		
roposed Response	Response Status O			<i>Cl</i> 105 So Ran, Adee	C 105.4.3.1.2	P 566 Intel	L 44	# 123
				Comment Type	Е	Comment Status D		
104 SC 104.4.4.		L 27	# 28	This is a ge	eneral service	interface definition, it does	not refer to a sp	ecific sublayer.
ewart, Heath	Analog Devic	ces		Also applies	s to 105 4 3 2	1054322 105433 10	54331 1054	332
mment Type T	Also applies to 105.4.3.2, 105.4.3.2.2, 105.4.3.3, 105.4.3.3.1, 105.4.3.3.2.							
T 000 F				SugaestedRem	edv			
common circuit config	n limit on a PSE's Cout is limiti gurations can cause stability is a proposed change does not c	ssues. The attach	ned analysis	SuggestedRem Change "Th the other su	ne sublayer co	ontinuously sends" to "A su	blayer continuou	usly sends", here and i
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex tted as Maintenance Request	ssues. The attach reate the potentia e no other detect disting PoDL netwo	ned analysis al for one PSE to ion parameters are <i>r</i> orks.		ne sublayer co ubclauses	ontinuously sends" to "A sul Response Status O	blayer continuou	usly sends", here and i
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex tted as Maintenance Request the change process.	ssues. The attach create the potentia e no other detecti disting PoDL netw 1308 and has be	ned analysis al for one PSE to ion parameters are rorks. en put forth as a	Change "Th the other su Proposed Resp	ne sublayer co ubclauses		blayer continuou	usly sends", here and i
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite There is no impact on vendors the ability to	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex tted as Maintenance Request	ssues. The attach reate the potentia e no other detect disting PoDL netw 1308 and has be of this change as	ned analysis al for one PSE to ion parameters are rorks. en put forth as a a comment will allow	Change "Th the other su Proposed Resp	ne sublayer co ubclauses onse	Response Status O	L1	
common circuit config demonstrates that the detect another PSE a affected, there is no in This has been submit comment to expedite There is no impact on vendors the ability to in the market.	gurations can cause stability is e proposed change does not of as a valid PD. In addition, sinc mpact on interoperability of ex- tted as Maintenance Request the change process. n existing systems. Inclusion of take advantage of specification	ssues. The attach reate the potentia e no other detectivisting PoDL network 1308 and has be of this change as on relaxation before	ned analysis al for one PSE to ion parameters are vorks. en put forth as a a comment will allow re any devices are out	Change "Th the other su Proposed Resp C/ 108 So	ne sublayer co ubclauses onse C 108.5.3.2	Response Status O P 594	L1	
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite There is no impact on vendors the ability to in the market. See analysis at http://	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex tted as Maintenance Request the change process. n existing systems. Inclusion c	ssues. The attach reate the potentia e no other detectivisting PoDL network 1308 and has be of this change as on relaxation before	ned analysis al for one PSE to ion parameters are vorks. en put forth as a a comment will allow re any devices are out	Change "Th the other su Proposed Resp Cl 108 St Slavick, Jeff Comment Type If the modif	E ication to Clau	Response Status O P 594 Broadcom Ltd Comment Status D use 91 are done to make th	L 1	# 7 <u>4</u> res of the rsfec decode
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite There is no impact on vendors the ability to in the market. See analysis at http:// gggestedRemedy	gurations can cause stability is e proposed change does not of as a valid PD. In addition, sinc mpact on interoperability of ex- tted as Maintenance Request the change process. n existing systems. Inclusion of take advantage of specification	ssues. The attach reate the potentia e no other detect disting PoDL netw 1308 and has be of this change as on relaxation befo uests/maint_1306	ned analysis al for one PSE to ion parameters are vorks. en put forth as a a comment will allow re any devices are out	Change "Th the other su Proposed Resp Cl 108 So Slavick, Jeff Comment Type If the modif sub-heading	E ication to Clau	Response Status O P 594 Broadcom Ltd Comment Status D use 91 are done to make the e same edit to keep things of	L 1	# 7 <u>4</u> res of the rsfec decode
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite There is no impact on vendors the ability to in the market. See analysis at http:// suggestedRemedy	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex- tted as Maintenance Request the change process. In existing systems. Inclusion of take advantage of specification /www.ieee802.org/3/maint/req	ssues. The attach reate the potentia e no other detect disting PoDL netw 1308 and has be of this change as on relaxation befo uests/maint_1306	ned analysis al for one PSE to ion parameters are vorks. en put forth as a a comment will allow re any devices are out	Change "Th the other su Proposed Resp Cl 108 So Slavick, Jeff Comment Type If the modif sub-heading	E ication to Clau gs then do the s 2 optional fe	Response Status O P 594 Broadcom Ltd Comment Status D use 91 are done to make the e same edit to keep things of	L 1	# 7 <u>4</u> res of the rsfec decode
common circuit config demonstrates that the detect another PSE a affected, there is no ir This has been submit comment to expedite There is no impact on vendors the ability to in the market. See analysis at http:// uggestedRemedy Change Table 104-3 I	gurations can cause stability is e proposed change does not c as a valid PD. In addition, sinc mpact on interoperability of ex- tted as Maintenance Request the change process. n existing systems. Inclusion of take advantage of specification //www.ieee802.org/3/maint/req Item 5 Max limit from 200 nF	ssues. The attach reate the potentia e no other detect disting PoDL netw 1308 and has be of this change as on relaxation befo uests/maint_1306	ned analysis al for one PSE to ion parameters are vorks. en put forth as a a comment will allow re any devices are out	Change "The the other su Proposed Resp Cl 108 SC Slavick, Jeff Comment Type If the modif sub-heading RS-FEC ha SuggestedRem Place the la Bypass Errr Move the pa NOTE2 to b Place the p perform erro Correction (Update the	E sublayer co ubclauses onse C 108.5.3.2 E ication to Clau gs then do the s 2 optional fe edy ast 4 paragrap or Indication (aragraph start be the 3rd para aragraph begi or detection" a (optional) references in	Response Status O P 594 Broadcom Ltd Comment Status D use 91 are done to make the e same edit to keep things of eatures. ths and NOTE3 of 108.5.3.2	L1 e optional featur common across 2 under a headir on decoder indic mon decoder m sub-heading 10 108.6.5, 108.6.6	# 74 res of the rsfec decode clauses. Currently the ng of 108.5.3.2.2 cates errors" and ay provide the option t 08.5.3.2.1 Bypass Erro 5, 108.7.3, 108.7.4.2,

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 108	Page 28 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 108.5.3.2	8/25/2017 4:57:29 PM
SORT ORDER: Clause, Subclause, page, line			

Klempa, Michael	P 223 UNH IOL	L	# 33	C/ 112 SC 112.7 . Dawe, Piers	2 P 678 Mellanox Te	L 4 chnologies	# 144
Comment Type E Co TH11, TH12, and TH13 refer references 83E3.1 but with o			rence 109B.4.1 which		Comment Status D 0) is sufficient and we should und adequate. Anyway, "TIA/EI		
SuggestedRemedy				SuggestedRemedy			
Change the subclause to 10	9B.4.1				-127-A or" here (and in the Pl d MMF clauses that assume v		Similarly in Clause 95
Proposed Response Re	sponse Status O			Proposed Response	Response Status 0	COLLS.	
C/ 110 SC 13.4.4 Klempa, Michael	<i>P</i> 170 UNH IOL	L	# 31	C/ 113 SC 113.11		L 10	# 20
	omment Status D			Anslow, Pete	Ciena		
	non-mode input return lo ial to common-mode inp sponse Status W	oss" out return loss"	IS 92.8.4.3 WNICN	specifies the calcula somewhat garbled. SuggestedRemedy	e of the note is: "For 25GBAS tion of bit time per meter of ele n (105–1) specifies the calcula	ectrical cable for 2	25GBASE-T." which is
[CommentType not specified	P 640	L7	# 124	Proposed Response	Response Status O		
C/ 110 SC 110.10.7.1.1	/ 040						
Ran, Adee	Intel						
Ran, Adee <i>Comment Type</i> E <i>Co</i> Equations 93A-13 and 93A-1 parameters. This is stated in Also applies in 110.10.7.1.2. <i>SuggestedRemedy</i> Insert ", and the parameter values given in Table 92–12" 110.10.7.1.2.	Intel <i>omment Status</i> D 14 should be used with I 110.10.7.1 but omitted	here.					

C/ 113 SC 113.11

C/ 119 Slavick, Jeff	SC 119.6	-	9 618 adcom Ltd	L 29	# 72
Comment Ty	rpe T	Comment Statu	us D		
The rem	ote loopback ab				nded ability register. But v bit should reside.
SuggestedR	emedy				
Add: 45 When re loopback When re loopback If a PMA PMA ren loopback	.2.1.17.1 25G P ad as a one, bit (function. ad as a zero, bi (function. is able to perfonote (bit 1.0.1 (see 4	t 1.19.15 indicate rm the remote loo	ack ability (1. s that the PMA s that the PM/ opback functio	19.15) , is able to p A is not able	lity perform the remote e to perform the remote controlled using the
Proposed Re	esponse	Response Statu	s O		
<i>Cl</i> 126 McClellan, B	SC 126.8.2.2	-	2 124 rvell	L 42	# 35
Comment Ty error in t	•	Comment Statu "40" should be '			
SuggestedR change '	e <i>medy</i> '40" to "250"				
Proposed Re	esponse	Response Statu	s O		
CI A	SC A	F	⁹ 563	L 8	# 133
Dawe, Piers		Mel	lanox Techno	logies	
Comment Ty The pdf	,	Comment Statu w titles of clauses		nexes	
SuggestedR	emedv				
Change	the layout of the	e titles of annexes after the title rath			in the bookmarks, e.g.

Proposed Response Response Status **0**

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

C/ A SC A Page 30 of 30 8/25/2017 4:57:29 PM