C/ 00 SC 0	Р	L	# i-59	C/ 00	SC 0	Р	L	# i-55	
Anslow, Peter	Ciena Corpo	oration		Anslow, Pe	eter	Ciena Cor	poration		
Comment Type E Within Sections 2 a appear to be links,	Comment Status A and 3, most of the internal cross but clicking on them has no effe	-references to ect	Tables and Figures	<i>Comment</i> Comm bring t See bi	<i>Type</i> TR nent #375 aga hem up to dat	Comment Status A inst D2.0 changed the refere e. 802 org/3/maint/public/stass	ences to IEC 608	25-1 and IEC 60825-2 to	
SuggestedRemedy Fix the links				further	changes in th	nis comment.			
Response ACCEPT IN PRINC	Response Status C CIPLE.			SuggestedRemedy In the following subclauses related to PMD labeling requirements: 38.9, 52.12, 53.12, 58.8.5, 59.8.5, 60.8.5, 87.9.5, 88.9.7, 89.8.5;					
The older sections files are open at on and upon publication	do not always propery converge ce despite no cross ref errors ir n, will try again to fix this.	e when the PDI in the report. In	F is created if not all the generating this next book	Also ir Also ir places places	n the following n PICS items (a), 87.12.4.5 X a);	subclauses related to laser 38.12.4.2 PMS3, 38.12.4.5 (LES2 (2 places), 88.12.4.6 (safety: 75.8.2, 8 DR31, 53.15.4.5 (CES2 (2 places),	/ 9.2, 88.9.2, 89.8.2; DM44, 75.10.4.15 ES2 (2 89.11.4.5 XLES2 (2	
C/ 00 SC 0 Wright, Forrest	P Lexmark Inte	<i>L</i> ernational	# i-3	Also ir Chang	n 38.3.1 Table je "Class 1" to	38-3 Note a and 52.5.1 Tab "Hazard Level 1"	le 52-7 Note c:		
Comment Type G Comment Status R A single PDF version of this draft would have been preferred so that a single table of contents and "front-to-back" page numbering would have been available.				In the following subclauses related to Laser Safety: 38.7.2, 52.10.2, 53.10.2, 58.8.2, 59.8.2, 60.8.2: Change "Class 1" to "Hazard Level 1" and "IEC 60825-1" to "IEC 60825-1 and IEC 60825-2".					
SuggestedRemedy Issue a single PDF	version.			In 86.9 Chang	9.2 Laser safe je "Class 1M"	ty and 86.11.4.5 PICS item to "Hazard Level 1M"	SES2:		
Response REJECT.	Response Status C			In PIC SE2:	S items: 52.1	5.3.11 ES2, 58.10.3.6 ES2,	59.10.3.6 ES2, 6	0.10.4.8 ES2, 68.10.3.5	
The document has been in sections for a long time. In the 2005 edition, as the book grew from 3 to 5 sections, in a joint decision between volunteers and staff, it was split out into multiple books along the sections to make it easier to deal with the editorial efforts. This year as we added section 6, the document is about 3600 pages thus a single PDF remains				Change "Laser safety -IEC Class 1" to "Laser safety -IEC Hazard Level 1" and change: "Conform to Class 1 laser requirements defined in IEC 60825-1" to "Conform to Hazard Level 1 laser requirements defined in IEC 60825-1 and IEC 60825-2". In PICS item 38.12.4.5 QR32:					
an Issue.					Change "IEC 60825-1" to "IEC 60825-1 and IEC 60825-2"				
In the published version of 2008, the table of contents was done by section and was placed in the front. Furthermore, in the publsihed version the books are interlinked so clicking on					PT.	Response Status C			

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

one PDF will take you to another. We can work with staff to repeat that upon publication.

CI 00 SC 0 Page 1 of 41 4/16/2012 6:50:54 AM

C/ 00 Anslow, F	SC 0 Peter		P Ciena Corr	L	# i-56	CI 00 Anslow, Pe	SC 0		Р	L	# i-152	
Commen	t Tvpe E	Commen	t Status A			Comment	Tvpe G	Comment S	Status A			
Many of the internal references within in Sections 1, 2 and 3 are either not links or do not function properly. In particular, when a user searches for a particular PMD type, the first instance they find is in subclause 1.4 Definitions. These contain a pointer to the clause that PMD is defined in. (See IEEE Std 802.3, Clause x). Many of these clause references are links, but a significant number are not. Since jumping to the relevant section and clause is a very useful function, please make them all links. Also scrub the rest of Sections 1, 2 and 3 to make as many of the links active as possible.						When looking for cross-references that are text (not hyperlinks) in sections 1, 2 and 3 in response to Comment #i-56 and in the ICN Ad Hoc, the following issues were discovered As these should be non-controversial, rather than waiting to submit them as comments against unchanged text in D3.1, it is proposed to request to the Task Force to submit the as a comment from the floor against D3.0: Section 1 In 14.3.2.1, Page 387, line 34, Figure 14-7 is missing (blank) Section 2						
SuggestedRemedy Make all of the references in Subclause 1.4 active hyperlinks. Scrub the rest of Sections 1, 2 and 3 to make as many of the links active as possible. Response Response Status C ACCEPT IN PRINCIPLE. For non functioning links, will restore per comment #59. For text that can be turned into cross ref, will look at sections 1.4. Will look at clauses 2, 3 and the rest of books as well, time permitting.			In 31B.3.4.4, Page 753, line 25 this is the second Figure 31B-1. Change to Figure 31B-2 and re-number onwards In 31D.7.1, Page 768, line 11 in "can be found in Clause 21.Identification" the final word Identification should be a heading "31D.7.2 Identification" In 33.2.7, Page 641, line 6 the second paragraph of 33.2.7 has incorrect formatting (large indents). Section 3 In 40A, Page 339, line 14 change "10-10" to "10" followed by superscript "-10" Section 6 In the heading for Table 85-8 change "10GBASE-CR4 and 10GBASE-CR10" to "40GBASE-CR4 and 100GBASE-CR10"									
and the rest of books as well, time permitting. For the links noted in anslow_2_0312 make the suggested changes.		5.	Suggestea Per co Response ACCE	<i>Remedy</i> mment PT.	Response S	tatus C						
						<i>Cl</i> 00 Anslow, Pe	SC 0		P Ciena Cor	L	# <u>i-57</u>	
						Comment Type E Comment Status A Comment #156 against D2.0 changed all instances of "next page" and "base page" to be capitalised as "Next Page" and "Base Page". This leaves "extended Next Page" and "unformatted Next Page" inconsistently capitalised						
						Suggested	Remedy					
			Change capitalisation to be "Extended Next Page" and "Unformatted Next Page" throughout the draft. In 28C.13, change: "followed by an unformatted extended Next Page" to: "followed by an unformatted Extended Next Page"									
						Response ACCE	PT.	Response S	tatus C			

C/ 00 S	C 0	Р	L	# i-58	CI 00	SC ()	P 0	L 0	# i-35
Anslow, Peter		Ciena Corpora	ation		Turner, Mic	helle				
Comment Type	E C	Comment Status A			Comment 7	Гуре	TR	Comment Status A		
None of the	e cross-reference	es to "Clause 54" work as	s links		*** Con	nment	submittee	d with the file 75039600003	-Normative refer	ence not cited in
SuggestedRem	nedy				text.doo	c attach	ned ***			
Replace the	e marker in the t	itle of Clause 54 and the	n re-link the cros	s-references to it	The following references are cited in the Normative reference clause, however they are not					
Response	Response Response Status C				cited in text. If they are not needed for the implementation of the standard please move to					
ACCEPT.				the bibl	lograpy	/. If they	are needed, please cite in t	ext. Attached is	a listing.	
					Suggested	Remed	V			
C/ 00 S	C 0	P 0	L 0	# i-39						
Turner, Michell	e				Response			Response Status C		
Comment Type		ACCEPT IN PRINCIPLE.								
The following	ng references ar	e cited in the Normative	reference clause	however they are only	Delete	all the l	isted refe	erences as they do not app	ear elsewhere in	the document.
cited in NO	I E or a footnote	 I his implies that they a v should be removed fror 	ire needed for in the Normative	reference clause and						
placed in th	ne Bibliography.				C/ 00	SC ()	P 0	L 0	# <u>i-36</u>
SuggestedRem	nedy				Turner, Mic	helle				
	-				Comment 7	Гуре	ER	Comment Status R		
Response	R	esponse Status C			The following references are cited in both the Normative reference and Bibliography. Please decide if the documents are needed for the implementation of the standar or for informational purposes only. The should only be cited in one place.					
REJECT.										
					Suggested	' Remed	v	, ,		
Per discuss	sion with the Edi	tor and the style guide, ta	able footnotes ar	e normative parts of	ANSI/TIA/FIA-568-A-1995 and IEC 61754-4-1997					
	ent. This comme		ubsequently with		Response			Posponso Status		
CI 00 S	C 0	P 0	L O	# i-34	REIEC	т				
Turner, Michelle	e				REJEC	, .				
Comment Type	ER C	Comment Status A			The tex	t is wri	tten so th	at certain parts of the norm	ative specification	on reference normative
Please not	e, during publica	tion prep the Introduction	n will be reformat	ted so it will appear	text in t	the othe	er docum	ents. In such cases, the re-	ference is stated	as a normative
after the Pa	after the Participants list and right before the Special Symbols page.				informational purposes, it is done as a bibliography.					
SuggestedRem	nedy									
_										
Response	R	esponse Status C								
ACCEPT.										

CI 00 SC 0

Cl 00 SC 0 Turner, Michelle)	P 0	L 0	# i-37	<i>Cl</i> 00 Turner, Mi	SC 0 chelle	P 0	L 0	# <mark>i-38</mark>
Comment Type *** Comment s Reference_des The following r however when	ER C submitted with screpancies.c references are used in text t	comment Status In the file 7504020 doc attached *** e cited in the Norr the date is left off.	R 0003-Normative native reference claus . Please note during pi	e with the date, iblication the date will	Comment The fo but cite 1:1995 1:1996	Type TR Ilowing reference ad in text with a in Normative re in Normative re	Comment Status A ses are cited in the normati different date. Please veri eference clause but cited a eference clause, but as the	ve reference claus fy which is the corr as the 1992 versior e 1993 version in te	e with a specific date, ect version. IEC 60793- i in text. IEC 60794- ext.
be added SuggestedRemedy	Ŷ				Response		Response Status C		
Response REJECT.	Re	esponse Status	C		Add th older o	e older referend lauses (Clause	∟E. ces to the reference list in a s 9 and 15).	addition to the new	er ones as some of the
In the cases wi purposefully do updated refren	one this to mances.	no dated reference ake it easier to up	ce in the normative tex date the global referer	t, the group has the upon publication of	<i>Cl</i> 00 Turner, Mi	SC 0 chelle	P 7	L 0	# <u>i-</u> 33
CI 00 SC 0 Turner, Michelle)	P 0	L 0	# i-40	Comment Please	<i>Type</i> ER e update the Pa	Comment Status A tent statement.		
Comment Type This should be ANSI/TIA/EIA- G.695, and ITL SuggestedRemedy	TR C e attached to (-455-203-200 U-T Recommony	Comment Status comment 7, I forg 1, ANSI/TIA/EIA-2 endation O.153	R ot to include the docur 455-204-2000, ITU-T F	nents. ecommendations	Suggested Attenti subjec by the therew Accep <http: <="" td=""><td>Remedy on is called to the t matter covere- IEEE with resp ith. If a patent he ted Letter of As /standards.ieee</td><td>he possibility that impleme d by patent rights. By publi ect to the existence or vali- nolder or patent applicant h surance, then the stateme .org/about/sasb/patcom/pa</td><td>ntation of this stan cation of this stand dity of any patent r as filed a statemen nt is listed on the ll atents.html>. Letter</td><td>dard may require use o dard, no position is take ights in connection nt of assurance via an EEE-SA Website rs of Assurance may</td></http:>	Remedy on is called to the t matter covere- IEEE with resp ith. If a patent he ted Letter of As /standards.ieee	he possibility that impleme d by patent rights. By publi ect to the existence or vali- nolder or patent applicant h surance, then the stateme .org/about/sasb/patcom/pa	ntation of this stan cation of this stand dity of any patent r as filed a statemen nt is listed on the ll atents.html>. Letter	dard may require use o dard, no position is take ights in connection nt of assurance via an EEE-SA Website rs of Assurance may
Response REJECT.	Re	esponse Status	с		indicat withou that ar	e whether the S t compensation e demonstrably	Submitter is willing or unwil or under reasonable rates free of any unfair discrimin	ling to grant license , with reasonable t nation to applicants	es under patent rights erms and conditions s desiring to obtain such
Per discussion with the Editor and the style guide, table footnotes are normative parts of the document. This comment was considered and subsequently withdrawn by the editor.				license Essen The IE be req determ submis or non the va own re Assoc	es. tial Patent Clain EE is not respo uired, for condu- nining whether a ssion of a Letter -discriminatory. idity of any pate sponsibility. Fu	ns may exist for which a Le nsible for identifying Esser icting inquiries into the lega any licensing terms or cond r of Assurance, if any, or in Users of this standard are ent rights, and the risk of in rther information may be o	etter of Assurance ntial Patent Claims al validity or scope litions provided in d any licensing agre expressly advised fringement of such btained from the IB	has not been received. for which a license ma of Patents Claims, or connection with eements are reasonable that determination of o rights, is entirely their EEE Standards	
					Response ACCE	PT.	Response Status C		

P 4

C/ 00

SC 0

Page 4 of 41 4/16/2012 6:50:55 AM

C/ 01 SC 1.1	P 51	L 6	# i-102	C/ 01	SC 1.14.119	P	74 Giarran Car	L 4	# <u>i-6</u>
Dawe, Piers J G								прапу	
The claim that "This is a c Area Networks (LANs and options, but it goes only s Layer and some of the Da	comment Status A comprehensive internation MANs)" is a bit too wid o far up the stack. As far ata Link Layer.	al standard for Lo e. Yes, it's large as I can see it co	ocal and Metropolitan and has many overs the Physical	Harmo ISO ca 100 oh Note -	nize with other a bling references ms. "W" should be c	areas of the Standar b. Delete 120 ohm r changed to Symbol f	d (e.g. claus eference - th ont to show	e 40.1), which ne impedance ohms symbol.	n support both TIA and of category 4 cables is
SuggestedRemedy				Suggested	Remedy				
Delete "comprehensive". 1.1 or 1.1.1 or 1.1.3.	Refer to the most commo	on types of MAC of	client (LLC? other? In	Replac	e,				
Response ACCEPT IN PRINCIPLE. Delete "comprehensive".		"1.4.119 Category 4 balanced cabling: Balanced 100 W and 120 W cables and associated connecting hardware whose transmission characteristics are specified up to 20 MHz as per ISO/IEC 11801:1995. In addition to the requirements outlined in ISO/IEC 11801:1995, IEEE 802.3 Clause 14, Clause 23, and Clause 32 specify additional requirements for this cabling when used with 10BASE-T,							
C/ 01 SC 1.1	P 51	L 6	# <u>i-</u> 103	100BA	SE-T4, and 100	BASE-T2, respectiv	ely."		
Dawe, Piers J G	IPtronics			with,					
Comment Type E Comment Status R What's our position on being international? SuggestedRemedy If this isn't an international standard, delete "international", twice in this paragraph. Response Response Status C REJECT. This is an international Standard.				 "1.4.119 Category 4 balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 20 MHz as per ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-A-1995. In addition to the requirements outlined in ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-A-1995, IEEE 802.3 Clause 14, Clause 23, and Clause 32 specify additional requirements for this cabling when used with 10BASE-T, 100BASE-T4, and 100BASE-T2, respectively." Response Response Status C ACCEPT IN PRINCIPLE. Accept the suggested remedy as-is please note that the the ohm symbol appear as W in the comment 					associated connecting MHz as per ISO/IEC ements outlined in ause 14, Clause 23, used with 10BASE-T, mbol appear as W in
				C/ 01	SC 1.3	P	58	L 23	# i-96
				Comment Refere comme Suggested Add pr Response ACCEI Add IE	Type ER nces are missin ants). Remedy oper references PT IN PRINCIPI EE Std 802.5v-:	Comment Status g for 802.5v, 802.9a for 802.5v (withdraw <i>Response Status</i> LE. 2001 (withdrawn), IE	s A and 1394 (f wn), 802.9a C EEE Std 802	further details (withdrawn) ar 9a-1995 (with	in other GOT nd IEEE Std 1394. drawn) and IEEE Std
				1394-1	995 to section 1	1.3.			
TYPE: TR/technical required COMMENT STATUS: D/dispa	ER/editorial required GR/ atched A/accepted R/reje	/general required cted RESPON	T/technical E/editorial G ISE STATUS: O/open W/v	/general vritten C/closed	U/unsatisfied	Z/withdrawn	C/ 01 SC 1.3		Page 5 of 41 4/16/2012 6:50:55 A

SORT ORDER: Clause, Subclause, page, line

C/ 01 SC 1.3 Dawe, Piers J G	P 58 IPtronics	L 54	# i-123	C/ 01 SC 1.3 Maguire, Valerie	Р 6 The S	4 L 30 Siemon Company	# i-8
Comment Type E I don't think we shoul its own webstore. SuggestedRemedy Change "ANSI public (http://global.ihs.com (http://webstore.ansi. Or just http://ansi.org Response ACCEPT IN PRINCIF Will check with staff (URL.	Comment Status A d be promoting a particular res rations are available from The I)." to "ANSI publications are av org/). / if you prefer. Response Status C PLE. (publication editors) on whethe	eller above othe HS Standards S vailable from the	r bookshops. ANSI has tore ANSI Standards Store e anything beyond the	Comment Type E Replace forward sla SuggestedRemedy Replace, "ISO/IEC 11801:200 1:2008" with, Response ACCEPT.	Comment Status sh with space. 02/Amendment Response Status	A "ISO/IEC 11801:20 C	02 Amendment 1:2008"
C/ 01 SC 1.3 Dawe, Piers J G Comment Type E IEC 61076-3-113 is n to say where it is ava SuggestedRemedy Add to footnote 7: "TI (http://shop.bsigroup. (or http://www.bsigroup. ACCEPT IN PRINCIF http://www.bsigroup.co	P 61 IPtronics Comment Status A not available at IEC webstore, a ilable from. his document is available from .com/)". up.com/) Response Status C PLE. com/	<i>L</i> 6 although it's avai the British Stan	# [i <u>-131</u> lable from BSI. Need				
http://www.bsigroup.c	com/						

C/ 01 SC 1.3

C/ 01	SC 1.3	P 66	L 2	# i-7
Maguire,	Valerie	The Siemon Co	mpany	-

Comment Type T Comment Status R

During draft 2.0 comment resolution, it was agreed to delete the TIA OM3 and OM4 references and replace them with IEC 60793-2-10 Type A1a.2 and IEC 60793-2-10 Type A1a.3 references. Since many readers are familiar with the TIA references already, a friendlier solution would be to keep both references. These additional references should also be added as "or" alternatives in Table 52-25 (notes e and f), Table 86-2 (fiber type row and notes a and b), Table 86-9 (Delete superscript a after "Effective modal bandwidth at 850 nm", Insert superscript a after "2000" and add "a IEC 60793-2-10 Type A1a.2 or TIA-492AAAC", Insert superscript b after "4700" and ad "b IEC 60793-2-10 Type A1a.3 or TIA-492AAAD.", Re-letter remaing superscripts.), and Table 86-14 (notes a and b).

SuggestedRemedy

Add the following two Standards into the Normative References clause:

TIA-492AAAC-2009, Detail Specification for 850-nm Laser-Optimized, 50-um core diameter/125-um cladding diameter class la graded-index multimode optical fibers.

TIA-492AAAD-2009, Detail Specification for 850-nm Laser-Optimized, 50-um core diameter/125-um cladding diameter class la graded-index multimode optical fibers suitable for manufacturing OM4 cabled optical fiber. Note to Editor: Change "u" in

"um" to symbol in 4 locations to indicate micron.

Response Response Status C

REJECT.

The issue of whether to include TIA references in addition to the IEC ones was discussed during the resolution of comments #12 and #45 against D2.0 and comment #12 against D2.1 with the conclusion that only the international standard would be referenced. The Note at the end of Clause 1.3 says:

NOTE-Local and national standards such as those supported by ANSI, EIA, MIL, NFPA, and UL are not a formal part of this standard except where no international standard equivalent exists. A number of local and national standards are referenced as resource material; these bibliographical references are located in the bibliography in Annex A

C/ 01	SC 1.4	P 59	L 5	# i-128
Dawe, Piers	JG	IPtronics		

Comment Type T Comment Status R

According to the TIA web site, TIA-455-175-A (November 1992) has been superseded by "TIA-455-175-B (May 2003) FOTP-175 IEC 60793-1-42 Measurement Methods and Test Procedures - Chromatic Dispersion"

SuggestedRemedy

Replace references to

ANSI/TIA/EIA-455-175A-92; Chromatic Dispersion Measurement of Single-Mode Optical Fibers by the Differential Phase-Shift Method with references to

IEC 60793-1-42 Measurement Methods and Test Procedures - Chromatic Dispersion

Response Response Status C

REJECT.

The reference dispersion test method is specified differently in the two Standards.

C/ 01	SC 1.4	P 59	L 8	# i-127
Dawe, Piers	JG	IPtronics		

Comment Type E Comment Status R

Now that EIA has been reorganised out of existence, referring to documents as "EIA" is not appropriate.

SuggestedRemedy

Replace with current document names, remove the part of footnote 4 about EIA publications "EIA publications are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado 80112, USA (http://global.ihs.com/)."

Response Response Status C

REJECT.

This is an archival document and not subject to current naming conventions. Thus, EIA is correctly part of the Standards title for the editions of documents referenced.

C/ 01 SC 1.4

C/ 01 SC 1.4 P 71 L 40 # [i-124 Dawe, Piers J G IPtronics	C/ 01 SC 1.4.118 P 73 L 50 # i-14 Maquire, Valerie The Siemon Company
Comment Type ER Comment Status R The Definitions section is 27 pages long. Although it is finely subdivided, the subheadings do not appear in the bookmarks, so it is like a single subclause, 27 pages long, when typically we have at least one bookmark per page. This makes it hard to navigate quickly to a particular definition.	Comment Type T Comment Status A Harmonize with other areas of the Standard (e.g. clause 40.1), which support both TIA and ISO cabling references. Delete 120 ohm reference - the impedance of category 3 cables is 100 ohms. Note - "W" should be changed to Symbol font to show ohms symbol.
SuggestedRemedy Please set the Frame properties on just a few paragraphs (e.g. the first 1, the first A, the first F and so on) so that they show up in the pdf bookmarks list like any other third level heading. Alternatively, introduce bookmarked subheadings e.g. 1 to 9, A to E, F to O, P to Z. The current subheadings can become fourth-level non-bookmarked subheadings. Response Response Status C REJECT. The BRC continues to be unanimous that these changes do not improve the document.	SuggestedRemedy Replace, "1.4.118 Category 3 balanced cabling: Balanced 100 W and 120 W cables and associated connecting hardware whose transmission characteristics are specified up to 16 MHz (i.e., performance meets the requirements of a Class C link as per ISO/IEC 11801:1995). Commonly used by IEEE 802.3 10BASE-T installations. In addition to the requirements outlined in ISO/IEC 11801:1995, IEEE 802.3 Clause 14, Clause 23, and Clause 32 specify additional requirements for cabling when used with 10BASE-T, 100BASE-TX, and 1000BASE-T."
The find tool continues to be the easiest way to navigate.	with, "1.4.118 Category 3 balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 16 MHz (i.e., performance meets the requirements of a Class C link as per ISO/IEC 11801:1995 and category 3 as per ANSI/EIA/TIA-568-A-1995). Commonly used by IEEE 802.3 10BASE-T installations. In

Response

ACCEPT IN PRINCIPLE.

the comment

C/ 01 SC 1.4.118

addition to the requirements outlined in ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-A-1995, IEEE 802.3 Clause 14, Clause 23, and Clause 32 specify additional requirements for

Accept the suggested remedy as-is please note that the the ohm symbol appear as W in

cabling when used with 10BASE-T, 100BASE-TX, and 1000BASE-T."

Response Status C

C/ 01 SC 1.4.119 P 74 L 10 # i-15 Maguire, Valerie The Siemon Company	C/ 01 SC 1.4.1 Maguire, Valerie	21 P 64 The S	L 32 iemon Company	# i-9		
Comment Type T Comment Status A Harmonize with other areas of the Standard (e.g. clause 40.1), which support both TIA and ISO cabling references. Delete 120 ohm reference.	Comment Type T Add Normative Re proposed.	Comment Status ference if Definitions for C	A ategory 6A and Cate	gory 7A are added as		
Delete 120 ohm reference. The impedance of category 5 cables is 100 ohms. Note -	SuggestedRemedy Add,					
SuggestedRemedy	"ISO/IEC 11801:2 customer premise	002 Amendment 2:2010, I s."	nformation technolog	yGeneric cabling for		
Replace,	Response	Response Status	с			
"1.4.120 Category 5 balanced cabling: Balanced 100 W and 120 W cables and associated	ACCEPT.					
cabling components meet the performance specified in ISO/IEC 11801:1995). In addition	C/ 01 SC 1.4.1	21 P 74	L 15	# i-10		
to the requirements outlined in ISO/IEC 11801:1995 JEEE 802.3 Clause 14, Clause 23, Clause 25, and Clause 40 specify	Maguire, Valerie The Siemon Company					
additional requirements for this cabling when used with 10BASE-T and 100BASE-T."	Comment Type T	Comment Status	Α			
with,	Definition for category 6 cabling is missing. Note - "W" should be changed to Symbol font to show ohms symbol. SuggestedRemedy Add and re-number Definitions accordingly, "1.4.121 Category 6 balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 250 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:2002 and ANSI/TIA-568- C.2). In addition to the requirements outlined in ISO/IEC 11801:1995 and ANSI/TIA-568- C.2, IEEE 802.3 Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify additional requirements for this cabling when used with 10BASE-T, 100BASE-T, and 10CPASE T."					
"1.4.120 Category 5 balanced cabling: Balanced 100 W and cables and associated						
connecting nardware whose transmission characteristics are specified up to 100 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:1995 and						
ANSI/EIA/11A-568-A-1995). In addition to the requirements outlined in ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-A-1995, IEEE 802.3 Clause 14, Clause 23, Clause 25, and Clause 40 specify additional requirements for this cabling when used with 10BASE-T and 100BASE-T."						
Response Response Status C ACCEPT IN PRINCIPLE.						
Accept the suggested remedy as-is please note that the the ohm symbol appear as W in	Response	Response Status	с			
the comment	ACCEPT IN PRINCIPLE.					
	Accept the sugges the comment	sted remedy as-is please r	ote that the the ohm	symbol appear as W in		

C/ 01 SC 1.4.121

C/ 01 SC 1.4.122 P 74 L 15 # i-11 Maguire, Valerie The Siemon Company	C/ 01 SC 1.4.124 P 74 L 14 # i-13 Maguire, Valerie The Siemon Company					
Comment Type T Comment Status A Definition for category 6A cabling is missing.	Comment Type T Comment Status A Definition for category 7A cabling is missing.					
A seperate comment to add ISO/IEC 11801:2002 Amendment 2 to the Normative References clause has also been submitted. Note - "W" should be changed to Symbol font to show ohms symbol.	Add if comment to add class FA to Table 55-17 is accepted. A seperate comment to add ISO/IEC 11801:2002 Amendment 2 to the Normative References clause has also been submitted. Note - "W" should be changed to Symbol font					
SuggestedRemedy						
Add and re-number Definitions accordingly,	SuggestedRemedy					
"1.4.122 Category 6A balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 500 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:2002 Amendment 2 and ANSI/TIA-568-C.2). In addition to the requirements outlined in ISO/IEC 11801:2002 Amendment 2 and ANSI/TIA-568-C.2, IEEE 802.3 Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify additional requirements for this cabling when used with 10BASE-T, 100BASE-T, and 10GBASE-T."	 Add and re-number Definitions accordingly, "1.4.124 Category 7A balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 1,00 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:2002 Amendment 2). In addition to the requirements outlined in ISO/IEC 11801:2002 Amendment 2, IEEE 802.3 Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify additional requirements for this cabling when used with 10BASE-T, 100BASE-T, and 10GBASE-T." 					
Response Response Status C	Response Response Status C					
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.					
Accept the suggested remedy as-is please note that the the ohm symbol appear as W in the comment	Accept the suggested remedy as-is please note that the the ohm symbol appear as W in the comment					
C/ 01 SC 1.4.123 P74 L 15 # [-12	C/ 01 SC 1.4.18 P67 L 24 # [i-16					
Maguire, Valerie The Siemon Company	Maguire, Valerie The Siemon Company					
Comment Type T Comment Status A	Comment Type T Comment Status A					
Definition for category 7 cabling is missing. Note - "W" should be changed to Symbol font to show ohms symbol.	Unshielded and "UTP" could be interpreted as excluding shielded 100 ohm category cabling.					
SuggestedRemedy	SuggestedRemedy					
Add and re-number Definitions accordingly,	Replace,					
"1.4.123 Category 7 balanced cabling: Balanced 100 W cables and associated connecting hardware whose transmission characteristics are specified up to 600 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:2002). In addition to the	"over four pairs of Category 3, 4, and 5 unshielded twisted-pair (UTP) wire."					
requirements outlined in ISO/IEC 11801:2002, IEEE 802.3 Clause 14, Clause 23, Clause	"over four pairs of Category 2-4, and 5 twisted pair cobling "					
with 10BASE-T, 100BASE-T, and 10GBASE-T."	Over four pairs of Category 3, 4, and 5 twisted-pair cabling.					
Response Response Status C	Response Status C					
ACCEPT IN PRINCIPLE.						
Accept the suggested remedy as-is please note that the the ohm symbol appear as W in the comment						
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/v SORT ORDER: Clause, Subclause, page, line	/general C/ 01 Page 10 of 41 vritten C/closed U/unsatisfied Z/withdrawn SC 1.4.18 4/16/2012 6:50:55 AM					

C/ 01 SC 1.4.19 P 67 L 27 # [i-17] Maguire, Valerie The Siemon Company	C/ 01 SC 1.4181 P 78 L 21 # i-65 Thaler, Patricia Broadcom Corporation				
Comment Type T Comment Status A UTP and STP are not the only "flavors" of 100 ohm category 5 cabling. SuggestedRemedy Replace,	Comment TypeEComment StatusAEtherType definition says See: Type and the standard generally uses Type rather than EtherType or Ethertype. However, it also uses type and Type for purposes unrelated to Ethertype. For example Type 1 and Type 2 PDs and PSEs, type in a TLV, and PHY types. IEEE 802.1Q uses Ethertype and the draft of IEEE 802-Rev uses EtherType.				
"over two pairs of Category 5 unshielded twisted-pair (UTP) or shielded twisted-pair (STP) wire." with,	SuggestedRemedy The field name could stay Length/Type because there is no ambiguity with that combination, but when talking about the 2-byte value in the field when the field has the Ethertype interpretation, Ethertype should be used for consistancy with other standards and disambiguation of Type within 802.3.				
"over two pairs of Category 5 twisted-pair cabling."	Response Response Status C				
Response Response Status C ACCEPT.	ACCEPT IN PRINCIPLE. Implement the changes suggested in thaler_1_0312.pdf.				
Parsons, Glenn Ericsson AB	Changes will be limited to non-deprecated clauses (i.e. clauses that are not deprecated or noty ones that are not recommended for new implementations)				
Comment Type E Comment Status A In IEEE Std 802.1Q-2011, the Q-tagged Annex showing 802.3 encoding (actually called "MAC method dependent aspects of VLAN support") has moved to Annex G	C/ 03 SC 3.2.7 P 126 L 46 # [i-4 Parsons, Glenn Ericsson AB				
SuggestedRemedy Change "Annex C" to "Annex G"	Comment Type E Comment Status A In 3.2.7 as part of NOTE 1, there is a (1.4.x) that should be (1.4.180)				
Response Response Status C ACCEPT.	SuggestedRemedy Change (1.4.x) to (1.4.180)				
	Response Response Status C ACCEPT.				

C/ 03 SC 3.2.7

C/ 04 SC 4	P 109	L 1	# i-50	C/ 14 SC	14.4.2	P 397	L 25	# <u>i-18</u>
Thaler, Patricia	Broadcom Cor	rporation		Maguire, Valerie		The Siemon Company		
Comment Type G At this point, all the shar recommended for new in multipoint DHXa are left	Comment Status R red media and all the repeate nstallations). Only full duplex	ers have been of capable point-	deprecated (i.e. not to-point and point-to-	Comment Type "Unshielded" SuggestedReme	T Co	omment Status A reted as excluding shie	lded 100 ohm ca	ategory cabling.
used for new installation	ISPOULDE L'AURILIEURE ALSO	recommend tr	lat Clause 4 not be	Replace,				
SuggestedRemedy Add a note indicating tha installations. Perhaps al Clause. (That depends of	at Annex 4A rather than Clau so indicate that maintenance on whether we think it is wort	use 4 is recomr e is no longer c th trving to kee	nended for new onsidered for this o this Clause in sync	"These char with,	acteristics are ge	enerally met by 100 m o	of unshielded twi	sted-pair cable"
when/if maintenance is o	considered for Annex 4A.)		 ,- ,	"These char	acteristics are ge	enerally met by 100 m	of twisted-pair ca	ble"
Response REJECT.	Response Status C			Response ACCEPT.	Res	sponse Status C		
This may have a wide in maintenance request wi	nplication. In order for this is: Il be entered to be considere	sue to have full d for inclusion	consideration a in the next revision.	C/ 19 SC Thaler, Patricia	19	P 539 Broadcom Co	L 3 prporation	# [i-44
C/ 13 SC 13	P 361	L 1	# i-49	Comment Type	E Co	omment Status A		
Thaler, Patricia	Broadcom Cor	rporation		Since this cl	ause is deprecat	ed, shouldn't it also ha	ve the usual dec	laration about
Comment Type G	Comment Status A			maintenance) (,			
I hate to say it since we applies when repeaters deprecate this Clause?	had to struggle so hard in created and we deprecated	eating this clau I Clause 9. Sho	ise, but it now only puldn't we also	SuggestedReme "Since Septe clause"	edy ember 2011, mai	intenance changes are	no longer being	considered for this
SuggestedRemedy				Response	Res	sponse Status C		
Add a note that says sin this Clause also wouldn'	ce Clause 9 repeaters are not t apply and that maintenance	ot recommende e changes are	ed for new installations, no longer being	ACCEPT IN	PRINCIPLE.			
Response	se. Response Status C			I he word de MIB. For cla	prectaed has a subset that are HV	specific meaning within V we have said not rec	ommended. From	n a maintenance
ACCEPT IN PRINCIPLE				perspective the practical meaning is the same. Hence no change is needed.				
Add a note:								
NOTEThis clause relat clause is not recommen are no longer being cons	es to clauses that are not re ded for new installations. Sir sidered for this clause.	commended fo nce March 2012	r new installations. This 2, maintenance changes					

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/ 19 SC 19 C/ 20 SC 20 P 557 13 # i-45 C/ 23 SC 23.1.4.1 P104 / 45 # i-20 Thaler, Patricia **Broadcom Corporation** Maguire, Valerie The Siemon Company Comment Type Е Comment Status A Comment Type T Comment Status A The same issue as my comment on Clause 19. "Unshielded" could be interpreted as excluding shielded 100 ohm category cabling. SuggestedRemedv SuggestedRemedy Add the statement about not considering further maintenance of this Clause. Replace, Response Response Status C "This specification permits the use of Category 3, 4, or 5 unshielded twisted pairs," ACCEPT IN PRINCIPLE. with, The word deprectaed has a specific meaning within this context as it is being applied to a MIB. For clauses that are HW we have said not recommended. From a maintenance "This specification permits the use of Category 3, 4, or 5 twisted pairs," perspective the practical meaning is the same. Hence no change is needed. Response Response Status C C/ 23 SC 23.1.2 P 103 L 33 # i-19 ACCEPT. Maguire, Valerie The Siemon Company C/ 24 SC 24.1.1 P 181 L 12 # i-21 Comment Type т Comment Status A Maguire, Valerie The Siemon Company "Unshielded" could be interpreted as excluding shielded 100 ohm category cabling. Comment Status A Comment Type т SuggestedRemedy UTP and STP are not the only "flavors" of 100 ohm category 5 Replace, cabling. Footnote 5 is not necessary in consideration of the revised text. "To provide for operating over unshielded twisted pairs of Category 3, 4, or 5 cable," SuggestedRemedy Replace, with, "100BASE-TX specifies operation over two copper media: two pairs of shielded twisted-pair "To provide for operating over twisted pairs of Category 3, 4, or 5 cable," cable (STP) and two pairs of unshielded twisted-pair cable (Category 5 UTP).5" Response Response Status C ACCEPT. with, "100BASE-TX specifies operation over two pairs of twisted-pair category 5 cabling." Delete footnote 5. Response Response Status C

IEEE P802.3 (IEEE 802.3bh) Ethernet Initial Sponsor ballot comments

ACCEPT.

C/ 24 SC 24.1.1 Page 13 of 41 4/16/2012 6:50:55 AM

C/ 24 SC 24.1. Maguire, Valerie	2 <i>P</i> 181 The Siemon Cor	L 42 npany	# i-22	<i>Cl</i> 24 Maguire, Val	SC 24.3.2.1 lerie	<i>P</i> 208 The Siemon C	L 6 Company	# [i-24
Comment Type T Comment Status A "UTP" could be interpreted as excluding shielded 100 ohm category cabling. Footnote 6 is not necessary in consideration of the revised text. SuggestedRemedy SuggestedRemedy Footnote 6 is not necessary					vpe T Ided" could be Pemedy	Comment Status A interpreted as excluding shiel	ded 100 ohm c	ategory cabling.
Replace,			"such as	s used by 100E	BASE-TX over unshielded twis	sted pair,"		
"Support cable pla	nts using Category 5 UTP 6,"			with,				
with,				"such as	s used by 100E	BASE-TX over twisted pair,"		
"Support cable pla	nts using Category 5 twisted-pair,"			Response ACCEP ⁻	Т.	Response Status C		
Delete footnote 6 Response ACCEPT.	Response Status C			<i>Cl</i> 25 Maguire, Val	SC 25.2 lerie	P 227 The Siemon C	L 24 Company	# <u>i-25</u>
C/ 24 SC 24.1.	Comment Type T Comment Status A UTP and STP are not the only "flavors" of 100 ohm category 5 cabling.							
Comment Type T	Comment Status A	sted-pair cabli	na	SuggestedR Replace	emedy ,			
SuggestedRemedy Replace.			ng.	"This standard provides support for Category 5 unshielded twisted pair (UTP) and shielded twisted pair (STP)."				
"signaling systems	that accommodate multimode optic	al fiber STP a	and LITP wiring "	with,				
				"This standard provides support for Category 5 twisted-pair cabling".				
with,				Response		Response Status C		
"signaling systems	that accommodate multimode optic	al fiber and tw	isted-pair cabling."	ACCEP	Т.			
Response ACCEPT.	Response Status C							

CI 25 SC 25.2

C/ 25 SC 25.3	P 227	L 40	# i-26	C/ 25	SC 25.4.5	P 229	L 42	# i-67			
Maguire, valerie	The Slemon C	Jompany		Zimmerman, e	Jeorge	CIME Consulti	ng				
Comment Type T	Comment Status A			Comment Type TR Comment Status A							
"Unshielded" could be ir	nterpreted as excluding shiel	lded 100 ohm ca	ategory cabling.	Text is changed from 802.3at-2009, but is not marked as changed. Previous text limited							
SuggestedRemedy Replace, "The cable plant specifications for unshielded twisted pair (UTP) of TP-PMD 11.1 are					equipment in the field may be designed to handle this, and newer receivers, which would be used with either 802.3at or 10GBASE-T have been shown to handle this equivalent test further study and unacceptable risk may be had in expanding this text to the wider set of 100BASE-TX transceivers.						
replaced by those speci	SuggestedRe	medy									
with,	with,				Change "or meet" to read "A transmitter in a Type 2 Endpoint PSE or Type 2 PD delivering or accepting more than 13.0						
"The twisted-pair cabling 25.4.9."	g specifications of TP-PMD	11.1 are replace	ed by those specified in	W average power or also implementing Clause 55 10GBASE-T shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP-PMD, or meet the requirements of 25.4.5.1."							
Response	Response Status C										
ACCEPT.	CEPT.					Response Status C					
				ACCEPT IN PRINCIPLE.							
	Re the commenter's statement about marked changes, this is an initial ballot and open scope document, hence no change marks from 802.3at-2009 are in order (the commenter may be referring to the WG ballot phase). This draft is identical to D2.2 of the WG ballot with the editorial changes to prepare it for initial SA ballot.										

Re the OCL change, it will be reverted back to the way it was in IEEE Std 802.3at-2009. Specifically, comment #s 186, 187, 188, 189, 190 and 191, from the P802.3 initial WG Ballot (D2.0), will be rolled back.

C/ 25 SC 25.4.5

C1 25 SC 25.4.9 P 231 L 52 # L 27 Mayuire, Valerie The Siemon Company Grad SI SA. Comment Type T Comment Status A The Siemon Company Suggested/Remedy Replace, ''''''''''''''''''''''''''''''''''''											
Comment Type T Comment Status A "Unshielded" and "UTP" could be mistaken to exclude shielded 100 ohm category cabling. SuggestedRemedy Replace, "25.4.9 UTP cable plant The cable plant specification for unshielded twisted pair (UTP) of TP-PMD 11.1 is replaced by that specified in this subclause." with, "25.4.9 Cable plant The kisted-pair cabling specification of TP-PMD 11.1 is replaced by that specified in this subclause." With, "25.4.9 Cable plant The Kisted-pair cabling specification of TP-PMD 11.1 is replaced by that specified in this subclause." Response Response Status C ACCEPT. Comment Status A Cl 25 SC 25.6.4.2 P241 L27 # j28 Maguie, Valene The Siemon Company Granent Type ER Comment Status C Cantact assignments are not specific twisted pair " Maguie, Valene The Sie a reference to "IEEE 802.5" (should the IEEE Stat 80.2.5.7). There are a couple of problems. (1) IEEE Stat 80.2.5 for there are a couple of problems. (1) IEEE Stat 80.2.5 for the ender Status A Contact assignments for unshielded twisted pair " More there are a couple of there is a reference to "IEEE 80.2.5" (should the IEEE Stat 80.2.5.7). There are a couple of there is a reference to the TEEE 80.2.5 for there are a couple of there are are specific to unshielded twisted	C/ 25 SC 25.4.9 Maguire, Valerie	P 231 The Siemon (L 52 Company	# i-27	Cl 28 Thompsor	SC 28.2.1.2. n, Geoffrey	.3 / Gra	₽ 290 aCaSI S.A.	L 12	# <u>i-90</u>]
Response Response Status C ACCEPT. C/ 25 SC 25.6.4.2 P 241 L 27 # 1.28 Comment Type T Comment Status A Contact assignments are not specific to unshielded MDI's. SuggestedRemedy Replace, "MDI contact assignments for unshielded twisted pair" with, "MDI contact assignments for twisted pair" Response Response Status C ACCEPT. C/ 28 SC 28.2.1.2.3 P 290 L 12 # 1-89 GraCaSI S.A. Comment Type ER Comment Status A There is a reference to "IEEE 802.5" (should it be IEEE Std 802.5?). There are a couple of problems. (1) IEEE Std. 802.5. It is no longer an active standard. It has been withdrawn. ISO/IEC 802-5: 1998 (and perhaps 8802-5 Amd1:1998) have been left behind as the "Stabilized" versions of 802.5 for reference. (2) The proper reference and mention to go here is actually IEEE Std 802.5.". Store there was any use of Auto-Negotiation in either of the earlier ISO volumes. I don't believe there was any use of Auto-Negotiation in any other 802.5 work than 802.5v. 802.5 vous the last amendment approved for 802.5. There was an attempt to do a revison project to merge everything in 2003 (I have a Sponsor Ballot invite) but I don't believe it ever completed. SuggestedRemedy Response Response Status C ACCEPT.	Comment Type T "Unshielded" and "UTP" co SuggestedRemedy Replace, "25.4.9 UTP cable plant The cable plant specification by that specified in this sub- with, "25.4.9 Cable plant The twisted-pair cabling sp subclause "	Comment Status A build be mistaken to exclu on for unshielded twisted bolause."	de shielded 100 pair (UTP) of TF 1.1 is replaced b	ohm category cabling. P-PMD 11.1 is replaced	Comment There proble versic Std 80 volum than 8 main Suggester Chan refere Response ACCE	Type ER is a reference to ms. (1) IEEE St n has been as w 02.9, 1996 Editio es. I don't belie 802.9a ISLAN16- standard before dRemedy ge the text "IEEE nce in the refere EPT.	Comment Stat o "IEEE 802.9"(sho d. 802.9 it is no lon vell. It is actually a on. There is no mer ve there was any u -T (IEEE Std 802.9 everything was with E 802.9" to "IEEE St ences clause. Response State	us A Judi it be IEE Joger an active joint edition: ntion of Auto- se of Auto-N a-1995). 802 hdrawn. Std 802.9a-19 Jus C	E Std 802.9?). standard in b ISO/IEC 8802 Negotiation in a gotiation in a .9a was never 95 (withdrawn	There are a couple of oth IEEE and its ISO -9: 1996(E) ANSI/IEEE either of the earlier ISC by other 802.9 work integrated into the)". Add a matching	: >
Cl 25 SC 25.6.4.2 P 241 L 27 # 128 Maguire, Valerie The Siemon Company The Siemon Company Comment Type T Comment Status A Contact assignments are not specific to unshielded MDI's. SuggestedRemedy Replace, (2) The proper reference and mention to go here is actually IEEE Std 802.5.5 for reference. (2) The proper reference and mention to go here is actually IEEE Std 802.5.5. No2.5v. 802.5v. 802.5v	Response R ACCEPT.	Response Status C			Cl 28 Thompsor	SC 28.2.1.2.	.3 /	P 290 aCaSI S.A.	L 12	# i-89	j
with, SuggestedRemedy "MDI contact assignments for twisted pair" Change the text "IEEE 802.5" to "IEEE Std 802.5v-2001 (withdrawn)". Add a matching reference in the references clause. Response Response Status C ACCEPT. ACCEPT. ACCEPT.	Cl 25 SC 25.6.4.2 Maguire, Valerie Comment Type T C Contact assignments are r SuggestedRemedy Replace, "MDI contact assignments	P 241 The Siemon (Comment Status A not specific to unshielded	<i>L</i> 27 Company MDI's. air"	# <u>i-28</u>	Comment There proble ISO/II "Stabi here i of Aut of Aut appro 2003	Type ER is a reference to ems. (1) IEEE St EC 8802-5:1998 lized" versions o s actually IEEE S o-Negotiation in o-Negotiation in ved for 802.5. T (I have a Sponso	Comment Stat o "IEEE 802.5" (sho d. 802.5 it is no lor (and perhaps 8802 of 802.5 for reference Std 802.5v-2001 Gi either of the earlie any other 802.5 wo here was an attem or Ballot invite) but	us A buld it be IEE bger an active 2-5 Amd1:199 ce. (2) The p igabit Token r ISO volume ork than 802. pt to do a rev I don't believ	E Std 802.5?) e standard. It h proper reference Ring Operation ss. I don't belie 5v. 802.5v wa vison project to e it ever comp	There are a couple of nas been withdrawn. left behind as the e and mention to go 1. There is no mention ave there was any use is the last amendment o merge everything in leted.	f
Response Response Status C ACCEPT. ACCEPT.	with, "MDI contact assignments	for twisted pair"			Suggester Chan refere	dRemedy ge the text "IEEE nce in the refere	E 802.5" to "IEEE S ences clause.	td 802.5v-20	01 (withdrawn)	". Add a matching	
	Response R ACCEPT.	Response Status C			Response ACCE	PT.	Response Statu	ıs C			

C/ 28 SC 28.2.1.2.3

C/ 28 SC 28.3.4	P 320	L 2	# i-41	C/ 28A	SC 28A	P 725	L 26	# i-94
Mclendon, Jonathon	Broadcom Co	orporation		Thompson, G	eoffrey	GraCaSI S.A.		
Comment Type G	Comment Status A			Comment Typ	De ER	Comment Status A		
Figure 28-18 is very	hard to read due to split lines c	ontained within	the states.	Table 28/	4-1, Row 5]	There is a reference to "IEEE St	td 1394". The r	eferred to standard
SuggestedRemedy				does not	show up in t	the references.		
If possible, stretching	g the ABILITY DETECT and TR	RANSMIT DISAE	BLE state boxes	SuggestedRe	medy			
horizontally on the pa	age might remedy some of the	split lines conta	ined within these states.	Add a ma	tching refer	ence in the references clause.		
Response ACCEPT IN PRINCI	Response Status C PLE.			Response ACCEPT.		Response Status C		
Will look at making th	hose two states easier to read			CI 28C	SC 28C	P 730	L 23	# <u>i-81</u>
C/ 28A SC 28A	P 725	L 24	# i-92	Barrass, Hugł	า	Cisco Systems	s, Inc.	
Thompson, Geoffrey	GraCaSI S.A.			Comment Typ	De TR	Comment Status A		
Comment Type ER Table 28A-1, Row 3	Comment Status A There is a reference to "IEEE S	Std 802.9 ISLAN	I-16T". The name of the	The entry needs to now be de	for "Organiz use a define efinitively as	zationally Unique Identifier Tagged message code. This was left signed.	ged Message (e as "XX" in earl	extended Next Page)" ier drafts, but should
standard is misquoted and the standard has been withdrawn. Also the referred to standard does not show up in the references				SuggestedRe	medy			
SuggestedRemedy		EE Std 802 00	1005 ISI AN16 T	Change tl Page)" as	he entry for s follows:	"Organizationally Unique Identif	fier Tagged Me	ssage (extended Next
(withdrawn)". Add a	matching reference in the refer	ences clause.	1995 ISLAN10-1	Use mess	sage code 1	1. change the columns M10:M0) to 00000011	01.
Response	Response Status C			000 11000	uge coue i	i, enange ale celanne in enne		•
ACCEPT IN PRINCI	PLE.			Move the	row above t	the "Reserved" row.		
				Change tl	he paragrap	h heading for 28C.13 to reflect	the same chan	qe.
Change the text "IEE a matching reference	E Std 802.9 ISLAN-161" to "IE in the references clause	EE Std 802.9a-	1995 (withdrawn)". Add	Response		Response Status C		•
	P 725	/ 25	# 1-93	ACCEPT	IN PRINCIP	PLE.		
Thompson, Geoffrey	GraCaSI S.A.	- 20		Flip mess	age code d	escriptions between the second	to last row and	d the third to last row
Comment Type ER	Comment Status A	"td 800 E" The	nome of the standard is	Change 1	1 to 11. C	Change equivelent binary to be C	0000001011	
misreferenced and th not show up in the re	nere is a reference to TEEE s ne standard has been withdraw ferences.	n. Also the refe	rred to standard does	Change X	(X to 12			
SuggestedRemedy								
Change the text "IEE reference in the re	E Std 802.5" to "IEEE Std 802 rences clause.	.5v-2001 (withdi	awn)". Add a matching					
Response	Response Status C							
ACCEPT.								

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

CI 28C SC 28C Page 17 of 41 4/16/2012 6:50:55 AM

CI 29 SC 29 P 339 L 1 # i-51	C/ 30 SC 30.1.2 P 348 L 23 # i-52
Thaler, Patricia Broadcom Corporation	Thaler, Patricia Broadcom Corporation
Comment Type G Comment Status A Same question and rationale as Clause 13 - is it time to deprecate this Clause. SuggestedRemedy	Comment Type T Comment Status A 802.1F is withdrawn. Should this be deleted as well as other references to oResourceTypeID and oEWMAMetricMonitor? oEWMAMetricMonitor only appears one other place along with oRepeaterMonitor which only appears once. oResourceTypeID is in a bunch of figures.
Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy
Add a note: NOTEThis clause relates to clauses that are not recommended for new installations. This clause is not recommended for new installations. Since March 2012, maintenance changes are no longer being considered for this clause.	Response Response Status C ACCEPT IN PRINCIPLE. Following the same style as prior comments on withdrawn standards, update the text to say IEEE Std 802.1F-1993 (withdrawn) and add a reference in the reference list if needed
C/ 30 SC 30.1 P 347 L 6 # [i-53] Thaler, Patricia Broadcom Corporation	C/ 30 SC 30.3.1.1.38 P 395 L 1 # [i-72 Barrass, Hugh Cisco Systems, Inc. Cisco Systems, Inc. Cisco Systems, Inc. Cisco Systems, Inc.
Comment Type G Comment Status R Should there be some mention of the relationship between this Clause and 802.3.1? SuggestedRemedy	Comment Type T Comment Status A aTransmitLPIMicroseconds should not be in 30.3.1.1 (MAC entity attributes) but should be in 30.3.2.1 (PHY entity attributes) SuggestedRemedy
Response Response Status C REJECT.	Move 30.3.1.1.38 to 30.3.2.1.8 and make corresponding change in Table 30-1b Response Response Status C ACCEPT.
There is a reference later on in the draft to text moving to 802.3.1. A brief paragraph introducing 802.3.1 at a high level is not necessary but had a one been provided in the remedy, the BRC would have considered it and determined whether or not to add it in.	Cl 30 SC 30.3.1.1.39 P 395 L 14 # I-73 Barrass, Hugh Cisco Systems, Inc. Cisco Systems, Inc. Comment Type T Comment Status A aReceiveLPIMicroseconds should not be in 30.3.1.1 (MAC entity attributes) but should be in 30.3.2.1 (PHY entity attributes) SuggestedRemedy Move 30.3.1.1.39 to 30.3.2.1.9 and make corresponding change in Table 30-1b Response Response Status ACCEPT.

C/ 30 SC 30.3.1.1.39

CI 30	SC 30.3.1.1.4	P 383	L 54	# i-144	C/ 30	SC 30).3.1.1.42	P 396	<i>L</i> 1	# i-76
Dawe, Piers	JG	IPtronics			Barrass, H	ugh		Cisco Syst	ems, Inc.	
Comment Ty D2.0 con nonrese the earli Suggest Revert t	ype E mment 68: table: presumab er editions. tedRemedy o correct speling	Comment Status A	ˈseta)? This was	spelled correctly in	Comment aLDFa 30.5.1 Suggested Move	<i>Type</i> astRetrain .1 (MAU e <i>IRemedy</i> 30.3.1.1.4	T Count sho entity attrib 42 to 30.5.4	Comment Status A uld not be in 30.3.1.1 (utes) 1.1.24 and make corres	MAC entity attribu sponding change i	tes) but should be in n Table 30-1b / 30-1e
AUCEF	1. Romodu				Response		F	Response Status C		
Please	continue with se	arch-and-replace to fix the re	maining occurre	ences in Clause 30	ACCE	PI.				
Response		Response Status C	indining boodine		<i>Cl</i> 30 Barrass, H	SC 30 ugh).3.1.1.43	<i>P</i> 396 Cisco Syst	L 12 ems, Inc.	# <u>i-77</u>
Will take remedy	another look. T to aid the editors	:. The commenter is encourage s and avoid repeat comment	d to provide the s	locations in his	Comment aLPFa 30.5.1	<i>Type</i> stRetrain .1 (MAU e	T Count sho entity attrib	<i>Comment Status</i> A uld not be in 30.3.1.1 (outes)	MAC entity attribu	tes) but should be in
CI 30	SC 30.3.1.1.4) <i>P</i> 395	L 26	# i-74	Suggested	Remedy	·			
Barrass, Hug	gh	Cisco Systems	s, Inc.		Move	30.3.1.1.4	42 to 30.5. ²	1.1.24 and make corres	sponding change i	n Table 30-1b / 30-1e
Comment Ty	уре Т	Comment Status A			Response		F	Response Status C		
aTransn 30.3.2.1	nitLPITransitions (PHY entity attr	s should not be in 30.3.1.1 (Nibutes.	IAC entity attrib	utes) but should be in	ACCE	PT.				
SuggestedR Move 30	Remedy 0.3.1.1.40 to 30.3	3.2.1.10 and make correspo	nding change in	Table 30-1b	<i>CI</i> 30 Hajduczen	SC 30 ia, Marek).3.3.2	P 399 ZTE Corpo	L 10 pration	# [i-1
Response ACCEP	Т.	Response Status C			Comment Attribu MAC (<i>Type</i> te aMAC Control fra	T ControlFun ame mecha	Comment Status A actionsSupported does anism even though Fig	not contain any re ure 30-3 shows cle	ference to EXTENSION early it is part of the
<i>Cl</i> 30 Barrass, Hug	SC 30.3.1.1.4 ′ gh	P 395 Cisco Systems	L 41 s, Inc.	# i-75	oMAC Also it suppo	ControlEr would be rt, to be a	ntity. e welcome able to cont	to have an on/off switc rol whether the given c	h for the EXTENS levice may use the	ION MAC Control frame ose or not.
Comment Ty	vpe T	Comment Status A			Suggested	lRemedy				
aReceiv 30.3.2.1 SuggestedR Move 30 Response	reLPITransitions (PHY entity attr <i>Remedy</i>).3.1.1.41 to 30.3	should not be in 30.3.1.1 (M ibutes) 3.2.1.11 and make correspon <i>Response Status</i> C	AC entity attribunding change in	ites) but should be in Table 30-1b	Make text: "I subcla ATTRI entries curren functio	the follow EXTENSI use: 30.3 BUTE AF : enabled t (when re on (when r	ring change ON <tab>E 3.8.3 with th PPROPRIA d disabled I ead) or targ read), as s</tab>	es in 30.3.3.2 - Add a n XTENSION MAC Cont ne following text 30.3.8 ITE SYNTAX: An ENU BEHAVIOUR DEFINED get (when set) operatio pecified in Annex 31C.	ew entry under Pf rol frame supporte .3 aEXTENSIONM MERATED VALUE O AS: A read-write nal state of the EX	C with the following ad" Add the following MACCtrlStatus E that has the following value that identifies the CTENSION MAC Control
AUCEI					Response ACCE	PT.	F	Response Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 30 SORT ORDER: Clause, Subclause, page, line

SC 30.3.3.2

Page 19 of 41 4/16/2012 6:50:55 AM

C/ 30 SC 30.5.1.1.2 P 439 L 20 # <u>i-95</u>	C/ 33 SC	33.2.7.5	_ /	^{>} 643	L 45	# i-78	
Thompson, Geoffrey GraCaSI S.A.	McCormack, Mic	chael	Te	xas Instrum	ents Inc		
Comment Type E Comment Status A Text description is off just a little.	Comment Type In IEEE Std	TR 802.3-200	Comment Stat 8, section 33.2.8.5	us A which was	the equivalent	section, there was	
SuggestedRemedy Change the text "IEEE Std 802.9 ISLAN-16T" to "IEEE Std 802.9a-1995 ISLAN16-T (withdrawn)". Add a matching reference in the references clause.	allowance fo some previc document th with installed	or 1ms of s ously comp his known b d base of F	ettling time (item t liant systems in th pehavior to PD ma PSEs compliant wit	 This settli installed b nufacturers the 2008 	ing time was re ase no longer of may cause new edition of the st	moved which makes compliant. Failing to v PDs to not operate tandard.	
Response Response Status C	SuggestedReme	edy					
ACCEPT IN PRINCIPLE. Change the text "IEEE Std 802.9 ISLAN-16T" to "IEEE Std 802.9a-1995 (withdrawn)". Add a matching reference in the references clause.	1) Restore ti allow startup 2) Add "NO Though not PSE oscillat	he 1ms allo transients FE 3-33.2.7 required, it ion." in sec	wance by adding (not preferred be 7.5 allows PSEs to is advisable to filt ction 33.3.3.5, pag	an item "d) havior for ne oscillate for er the PD in e 654, line 5	Measurement t ew implementat r up to 1ms dur put voltage to i 5 following Figu	to be taken after 1ms to tions.)" at line 50. ring power on startup. gnore this potential re 33-16.	
Cl 31C SC 31C.2 P 759 L 17 # i-2	Response		Response Stati	is C	0 0		
Hajduczenia, Marek ZTE Corporation	ACCEPT IN	PRINCIPL	.E.				
In PAUSE annex (31B), the definition of the transmit function is accompanied by a state diagram which explains how the transmission process takes place. EXTENSION seems to have a dedicated subclause (31C.2) but there is no associated state diagram, even if it is very simple. SuggestedRemedy	Restore the minimum IIr PSEs that u shall power [Editor's not	1ms allow nrush requi ses 1-Ever up a class e: Ilnrush i	ance by adding an rement to be taker nt physical layer cl 4 PD as if it used s I subscript Inrusl	item "d) Fo n after 1ms t assification, 2-Event phy n]	r Type 1 PSE, i to allow startup and requires the sical layer clas	measurement of transients. A Type 2 ne 1mS settling time, sification. " at line 50.	
	C/ 35 SC	35.2.2.6	I	^{>} 30	L 19	# i-60	
Response Response Status C	Anslow, Peter		Cie	ena Corpora	tion		
ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A						
31B has some specific behaviours needed for the PAUSE control frame. This is just another MAC Control Frame without any specific bahaviour needed.	The Figure and Table numbers in Clause 35 are inconsistent. The Figure numbers go from 35-7 back to 35-1 and there are two (different) Tables numbered 35-1						
Add a subclause that says "MAC Control sublayer entities that transmit or receive	This is due t	o an incori	rect Autonumber fo	ormat for the	e heading of 35	.2.2.6	
EXTENSION frames shall pass them through without additional processing	SuggestedReme	∋dy					
	Fix the Autonumber format of the heading for 35.2.2.6 and hence make the Figure and Table numbering for Clause 35 consistent.						
	Response		Response Statu	ıs C			
	ACCEPT.						

Cl 35 SC 35.2.2.6

C/ 36 SC 36.1.4.3 Dawe, Piers J G	P 54 IPtronics	L 38	# i-118	C/ 36 SC Barrass, Hugh	36.2.5.2.2	P 82 Cisco System	L 27 ns, Inc.	# <u>i-69</u>
Comment Type E mediums	Comment Status A			<i>Comment Type</i> The exit term	TR Com	<i>ment Status</i> A to labeled polygon E	(added by 802.3	Bax) is missing.
SuggestedRemedy media				SuggestedRemed Add exit term	dy from state RX_K	to labeled polygon E	with the followin	g condition:
Response ACCEPT.	Response Status C			xmit=DATA 8 (SUDI([/D6.5/ [/D26.4/1))	4#8727; /] +			
Cl 36 SC 36.2.4.12 Barrass, Hugh	P 67 Cisco System	L 35 Is, Inc.	# i-70	As shown in t	802.3az.			
Comment Type TR The last paragraph is ir	Comment Status A	ered.		Response ACCEPT IN F	Respo PRINCIPLE.	onse Status C		
SuggestedRemedy				xmit=DATA *	(SUDI([/D6.5/] +[/	(D26.4/]))		
Change: data code-group other	than /D21.5/ or /D2.2/,			CI 36 SC Dawe, Piers J G	36.7	P 100 IPtronics	L 34	# i-121
to				<i>Comment Type</i> It is normal to	E Com	ment Status A n a new page		
data code-group other capability),	than /D21.5/ or /D2.2/ (or /D6	6.5/ or /D26.4/ to	support EEE	SuggestedRemed	dy S on a new nade			
Response ACCEPT.	Response Status C			Response	Respo	onse Status C		
C/ 36 SC 36.2.5.2.2 Barrass, Hugh	2 P 82 Cisco System	L 23 is, Inc.	# i-68	, (OCE) 1.				
Comment Type TR Exit term from state R>	Comment Status A (_K to IDLE_D is missing its	last element.						
SuggestedRemedy Third line of exit term s	hould be							
(xmit=DATA ∗ id	dle_d)							
As it was in 802.3az. <i>Response</i> ACCEPT IN PRINCIPL	Response Status C E.							
(xmit=DATA & idle_d)								

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/ 36 SC 36.7 Page 21 of 41 4/16/2012 6:50:55 AM

ballot comments

C/ 38 SC	38.11.1	P 148	L 21	# i-126	In Table 38-2, Tal 13 change "10 um		
Dawe, Piers J G	i	IPtronics					
Comment Type	TR	Comment Status A			In 38-4 change "a		
Don't we wa restrict Giga	ant to allow abit Etherne	Gigabit Ethernet on new fibre to old fibre?	? We have fixe	d other clauses, why	In 38.11.1 change		
As I pointed of 2007). TI IEC 60793-2	l out before he dispersi 2 is too bro ve SME is o	e, IEC 60793-2:1992 is way ou on limits have changed slight ad anyway. called "10/125" any more	ut of date (the ve ly for 50 um MM	rsion in force is ed6.0 F and I believe for SMF.	C/ 40A SC 40A Maguire, Valerie Comment Type T		
SuggestedRem					"Unshielded" coul		
Change " (62.5/125 ur Table 38-12	fibers spec m multimoo " to " fib	tified in IEC 60793-2:1992. Ty de), and B1 (10/125 um single er types A1a (50/125 um mul	vpes A1a (50/12) e-mode) with the timode) or A1b (5 um multimode), A1b exceptions noted in 62.5/125 um	SuggestedRemedy Replace,		
multimode) 12.".	specified ir	n IEC 60793-2-10 or B1 (singl	e-mode) or as s	pecified in Table 38-	"1000BASE-T is o		
In Table 38-	12, delete	"10 um".			with,		
Response		Response Status C			"1000BASE-T is c		
ACCEPT IN	ACCEPT IN PRINCIPLE. The requirements in Table 38-12 are normative: 38.11 contains:						
"The 1000B	ASE-SX ar	nd 1000BASE-LX fiber optic o	abling shall mee	t the specifications	CI 44 SC 44		
defined in 1	able 38-12	."			Dawe, Piers J G		
The text tha	t is the sub	ject of this comment:			Comment Type T		
"The fiber o 2:1992. Typ um single-m	ptic cable r es A1a (50 node) with t	equirements are satisfied by 1/125 um multimode), A1b (62 the exceptions noted in Table	the fibers specifi 2.5/125 um multi 38-12."	ed in IEC 60793- mode), and B1 (10/125	"Introduction to 10 (10GBASE-T) is b PMDs are still ope this error by 2003		
is helpful inf and it does	ormation c not itself re	oncerning fibre types that sat estrict the use of more recent	isfy the requirem fibers.	ents in Table 38-12	SuggestedRemedy Please delete "ba		
The change from 0.093 t	s in SMF d to 0.092 ps	lispersion slope specification /nm/nm/km, so the newer SM	were a tightening IF fibers still con	g of the requirement apply with Table 38-12.	Response REJECT.		
The recent of combination which could compliant. dispersion in wavelength wavelength specification Table 38-12	The use of "base						
TYPE: TR/techn	nical require	ed ER/editorial required GR/	deneral required	T/technical E/editorial	G/general		

ble 38-6, Table 38-7, Table 38-9, Table 38-11, Table 38-12, and Table 53n SMF" to "SMF"

and 10 um single-mode fiber" to "and single-mode fiber"

e "(10/125 um single-mode)" to "(single-mode)"

C/ 40A	SC 40A	P 339	L 10	# i-29
Maguire, Vale	erie	The Siemo	on Company	

Comment Status A

Id be interpreted as excluding shielded 100 ohm category cabling.

designed to operate over 4-pair unshielded twisted-pair cabling systems..."

designed to operate over 4-pair twisted-pair cabling systems..."

Response ACCE	e PT.	Response Status C		
C/ 44	SC 44	P 37	L 1	# [<u>i-</u> 145
Dawe, Pie	ers J G	IPtronics		

Comment Status R

000 Mb/s baseband network" yet only one of the ten port types mentioned baseband. The BASE in the name does not make it baseband; the optical erating around 2.10^14 Hz, and we had noticed this and stopped making 3. Compare "80. Introduction to 40 Gb/s and 100 Gb/s networks".

aseband" because it is technically incorrect.

lesponse	Response Status	С
esponse	Response Status	C

band" here is consistent with past practice.

TYPE: 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/ 44 SC 44 Page 22 of 41 4/16/2012 6:50:55 AM

Cl 44 Dawe Pie	SC 44.1.4.4	P 40	L 23	# i-119	CI 45 Dawe Pie	SC -	45.2.1.7.4	P 59	L 25	# <u>i-111</u>
Comment Althou	t <i>Type</i> E ugh Annex 44A co	Comment Status A	t referred to fro	m elsewhere.	Comment Wher	<i>Type</i> this sub	E oclause wa	Comment Status A	vo options, 52.4	.8 and 53.4.10. Now
Suggeste At the to the	dRemedy e end of 44.1.4.4, MDI and vice ver	add "Annex 44A contains dia sa.".	grams of the da	ata flow from the MAC	Suggeste Pleas for Re	are tnino dRemeo e set ou eceive fa	een and e ly t the refere ult in next	ences to the transmit fault fu subclause.	now much too	PMDs as a table. Also
ACCE	EPT IN PRINCIPL	E.			Response ACCI) EPT IN F	RINCIPLE	Response Status C		
At the MAC loopb	e end of 44.1.4.4, and the MDI, as v ack."	add "Annex 44A contains dia vell as information on the rela	grams of the da tion between d	ata flow between the ata valid signals and	Repla The c	ice with: lescriptic	on of the tr	ansmit fault function for the	various PMDs i	s given in Table 45-x.
C/ 44A Dawe, Pie	SC 44A ers J G	P 695 IPtronics	L 9	# [i-120	"PME Make	" and "D the equ	escription	location". Inge in 45.2.1.7.5 for receive	e fault.	
Comment Althor	<i>t Type</i> E ugh 44A.4 contair	Comment Status A	erred to from els	sewhere.						
Suggeste Insert signa	d <i>Remedy</i> t new sentence " Is and loopback fu	. receive direction. 44A.7 illus unctions. The diagrams"	strates the relat	ion between data valid						
Response ACCE	9 EPT IN PRINCIPL	Response Status C E.								
See r	esponse to Comn	nent #119								

C/ 45 SC 45.2.1.7.4

						opono	or ballot			
C/ 45	SC 45.2.7.	13 P 230	L 9	# i-99	C/ 51	SC	51.6.2	P 449	L 52	# <mark>i-54</mark>
Ganga, Ila	ango	Intel Corp	oration		Anslow, F	Peter		Ciena Corpora	ation	
Comment Devic with r mess EEE 45.2.7 sent a Clasu	Type TR res using Clause nessage code a age shall consist as specified in 7.13. Whereas after message r le 28 AN. Corre	Comment Status A a 73 AN for EEE are requir and unformatted code. See st of only a Message Next Table 73A-1 and the unform text in 45.2.7.13 incorrectly ext page. The unformatted ct the text in 45.2.7.13 as p	ed to send a single 73A.4, "The EEE te Page". The messag natted code mapping indicates as if unfo next page only app proposed.	Message Next Page" chnology code e code field indicates g as specified in rmatted next page is lies to devices using	Commen For 1 recei In co ppm five ti http:/ matte	t Type OGBASE ver is red ntrast to but the r imes larg //www.iee ers.	TR E-R, the a quired to this, for 1 eceiver is ger than is ee802.org	Comment Status A allowed clock variation of the to tolerate the same clock variation IOGBASE-W the allowed clock is still required to tolerate a clock is allowed for the transmitter. St y/3/maint/public/anslow_1_01	transmitter is +/ ion of +/- 100 p k variation of th ck variation of - See 12.pdf for a disc	- 100 ppm and the pm. le transmitter is +/- 20 +/- 100 ppm which is cussion of why this
Suggeste	dRemedy				Suggeste	edRemed	ly			
Chan EEE mess Page techn Next Chan regist Mess	ge first sentenc advertisement t age code as de with EEE ology message Page as defined ge second sent er 7.60 map to age Next Page	e in first paragraph of 45.2 hat is sent in the unformatt fined in 28C.12 or sent in t code as defined in 73A.4 of 1 in 55.6.1. ence of second paragraph bits U15 through U0 respe- with EEE technology mess	7.13 as follows: "Th ed Next Page follow he unformatted code or sent as part of the of 45.2.7.13 as follo ctively of the unform age code as defined	is register defines the ing a EEE technology a field of Message Next a 10GBASE-T extended ws: "Bits 15:0 of atted coded field of d in 73A.4."	In Ta 20 pp In Ta from In Ta from Respons	ble 51-1 om ble 52-9 +/-100 p ble 52-1 +/-100 p ble 52-1 +/-100 p e	2, change , change pm to +/- 3, change pm to +/- 7, change pm to +/-	e the 10GBASE-W tolerance the 10GBASE-SW Signaling 20 ppm e the 10GBASE-LW Signaling 20 ppm e the 10GBASE-EW Signaling 20 ppm <i>Response Status</i> C	for a valid clock speed variation g speed variatio g speed variatio	: from +/-100 ppm to +/- from nominal (max) n from nominal (max) n from nominal (max)
Response	e	Response Status C			ACC	FPT.				
ACCE Chan "This follow code or set Chan "Bits code 73A.2	EPT. ge first sentenc register defines ving a EEE tech field of Messag nt as part of the ge second sent 15:0 of register d field of Messa I."	e in first paragraph of 45.2 the EEE advertisement th nology message code as c e Next Page with EEE tech 10GBASE-T extended Ne ence of second paragraph 7.60 map to bits U15 throu ge Next Page with EEE tec	7.13 as follows: at is sent in the unfo efined in 28C.12 or nology message co xt Page as defined i of 45.2.7.13 as follo gh U0 respectively o hnology message c	ormatted Next Page sent in the unformatted de as defined in 73A.4 n 55.6.1." ws: of the unformatted ode as defined in	Cl 51 Trowbridg Commen 10GE Suggeste Chan Response ACCI	SC ge, Steph t Type BASE-W edRemed age to 62 e EPT IN F	51.8 nen Rx clock 1/2.08 MH2 PRINCIPI	P 453 ALCATEL-LU Comment Status A tolerance inconsistent with T z+/-20ppm Response Status C .E.	<i>L</i> 6 CENT x clock tolerand	# <u>i-82</u>
Cl 48A Dawe, Pie	SC 48A.4 ers J G	P 708 IPtronics	L 7	# <u>i-132</u>	See	response	e to comn	nent #54		
Comment Docu	<i>Type</i> E ment name her	Comment Status A e is not the same as in bibl	iography. Note the p	lural.						
<i>Suggeste</i> Chan Speci	<i>dRemedy</i> ge ""Methodolo ification". Also	gy of Jitter Specification"." n bibliography, insert dash	to "Fibre Channel - I or hyphen after "Fit	Methodologies for Jitter ore Channel"						
Response ACCE	e EPT.	Response Status C								

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 51 SC 51.8 Page 24 of 41 4/16/2012 6:50:55 AM

C/ 52 SC 52.5.2 P 466 L 14 # i-83	C/ 55 SC 55.12.4 P 688 L 10 # i-43
Trowbridge, Stephen ALCATEL-LUCENT	Grimwood, Michael Broadcom Corporation
Comment Type TR Comment Status A	Comment Type T Comment Status A
10GBASE-SW Rx clock tolerance inconsistent with Tx clock tolerance	As specified in 55.4.3.4, and corresponding to a 1e-12 BER, the LDPC frame error ratio is 3 2e-9
SuggestedRemedy	0.20 0.
As with signaling speed, split specifications for speed variation from nominal to indicate 10GBASE-SR as +/-100ppm and 10GBASE-SW as +/-20ppm	This corresponds to a packet error ratio of less than one LDPC frame in 3.125e8 and not one in 3.2e9.
Response Response Status C	SuggestedRemedy
ACCEPT IN PRINCIPLE.	Change:
See response to comment #54	3.2 X 10^9
C/ 52 SC 52.6.2 P 469 L 14 # i-84 Trowbridge, Stephen ALCATEL-LUCENT ALCATEL-LUCENT	То:
Comment Type TR Comment Status	3.125 X 10^8
10GBASE-LW Rx clock tolerance inconsistent with Tx clock tolerance	Response Response Status C
Suggested Remedy	ACCEPT IN PRINCIPLE.
As with signaling speed, split specifications for speed variation from nominal to indicate	Change the format of the LFER specification to be the same as that used in 55.4.2.4.
10GBASE-LR as +/-100ppm and 10GBASE-LW as +/-20ppm	Change:
Response Response Status C	"LDPC frame error ratio of less than one frame in 3.2 x 10 ⁴ 9" to: "LDPC frame error ratio of less than 3.2 x 10 ⁴ 9"
ACCEPT IN PRINCIPLE.	[Editor's note: 10^ here is 10 with a superscripted number in the document]
See response to comment #54	See also comment #42
CI 52 SC 52.7.2 P 472 L 14 # [i-85	C/ 55 SC 55.12.8 P 693 L 11 # [i-30
Trowbridge, Stephen ALCATEL-LUCENT	Maguire, Valerie The Siemon Company
Comment Type TR Comment Status A	Comment Type T Comment Status A
10GBASE-EW Rx clock tolerance inconsistent with Tx clock tolerance	Category 6 requirements are specified in ANSI/TIA-568-C.2
SuggestedRemedy	SuggestedRemedy
As with signaling speed, split specifications for speed variation from nominal to indicate 10GBASE-ER as +/-100ppm and 10GBASE-EW as +/-20ppm	Replace,
Response Response Status C	"Per category 6 requirements specified in ANSI/TIA/EIA568-B.2-1-2002 and ISO/IEC
ACCEPT IN PRINCIPLE.	11601.2002
See response to comment #54	with,
	"Per category 6 requirements specified in ANSI/TIA-568-C.2 and ISO/IEC 11801:2002"
	Response Response Status C
	ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 55
 Page 25 of 41

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 55.12.8
 4/16/2012 6:50:55 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 55.12.8
 4/16/2012 6:50:55 AM

C/ 55 SC 55.4.2.5 Dawe, Piers J G	P 626 IPtronics	L 43	# i-149	C/ 55 Grimwood	SC 55.4.2.	5.7	P 629 Broadcom Co	L 52 orporation	# i-42
Comment Type E Bitmaps cannot be str	Comment Status A ring-searched.			<i>Comment</i> As sp	<i>Type</i> T ecified in 55.4.3	Commen 3.4, and corres	t <i>Status</i> A ponding to a 1e	e-12 BER, the ma	aximum LDPC frame
SuggestedRemedy Please rework these "	figures" using Frame's table fe	eature.		error	ratio is 3.2e-9.	a packet error	ratio of less thar	n one LDPC frar	ne in 3.125e8 and not
Response ACCEPT.	Response Status C			one ir Suggester	n 3.2e9. dRemedy				
C/ 55 SC 55.4.2.5 Zimmerman, George	.14 P 633 CME Consulti	L 46 ng	# i-66	3.2 X	10^9				
Comment Type TR Additional constraint of earlier equipment	Comment Status R on PMA coefficient state timing	may cause inte	eroperability issues with	To: 3.125	X 10^8				
SuggestedRemedy Delete new line with a	dditional constraint on PMA C	oef state with tir	ning_lock_OK = 0.	Response ACCE	PT IN PRINCI	Response PLE.	Status C		
Response REJECT. The new line in Table	Response Status C 55-9 was added in response to	o Maintenance (request 1216 (see	Chan Chan "at an "at an IEdito	ge the format of ge: error ratio of le LDPC frame e r's note: 10^ he	f the LFER spe ess than one LI rror ratio of les rre is 10 with a	ecification to be DPC frame in 3. s than 3.2 x 10 ⁴ superscripted n	the same as tha 2 x 10^9" to: ∿-9" number in the do	t used in 55.4.2.4. cument]
comment #183 agains http://www.ieee802.or The reason for adding Master a defined mini	g/3/maintrequests/maint_12/1 st D 2.0 (see g/3/bh/comments/P802d3_802 this extra constraint was to in mum time to compute the THF	2d3_bh_D2p0_4 prove interoper coefficients.	All_Clause.pdf) ability by giving the	See a	lso comment #	43			

C/ 55 SC 55.4.2.5.7

C/ 55 SC 55.7	P 660	L 45	# <u>i-31</u>	C/ 55	SC 55.7.2		P 661	L 38	# i-32
Maguire, Valerie	The Siemon C	Company		Maguire, V	/alerie		The Siemon	Company	
Comment Type T C The term "channel" in ISO/II contains cable and connecti To define the link segment a confusing.	omment Status A EC and TIA terminology ng hardware that suppo as containing 4 channels	refers to a cabli rts transmission s (is that 16-pairs	ng configuration that over 4 twisted-pairs. s??) is extremely	Comment Class Suggester Add ti	<i>Type</i> T FA also suppor <i>dRemedy</i> ne information be	<i>Commei</i> ts 10GBASE elow in a nev	nt Status A -T. Table 55-17: v row at the botto	Add Class FA	requirements. 17:
SuggestedRemedy Replace,				Ca	bling: Class FA		400		
"The term "link segment" us for a link segment apply equ	ed in this clause refers t ally to each of the four o	o four duplex ch duplex channels	annels. Specifications ."	Ca	bling references	s: ISO/IEC 11	801:2002 Amen	dment 1	
with,				Note	to Editor: The "A	\" in "FA" is s	ubscript.		
Option 1: "The term "link set transmitting in full duplex. S four twisted-pairs." Option 2: The term "link seg four twisted-pairs. Specifica	gment" used in this claus specifications for a link s ment" used in this claus ations for a link segment	se refers to four egment apply en e refers to a cal apply equally to	twisted-pairs qually to each of the bling system containing b each of the four	Response ACCE	PT.	Respons	e Status C		
Response Re ACCEPT IN PRINCIPLE. Replace: "The term "link segment" us for a link segment apply equ with: "The term "link segment" us duplex. Specifications for a	esponse Status C ed in this clause refers t ially to each of the four o ed in this clause refers t link segment apply equa	to four duplex ch duplex channels to four twisted-p ally to each of th	annels. Specifications ." airs operating in full le four twisted-pairs."						

Cl 55 SC 55.7.2

CI 58	SC 58.7.2	P 111	L 35	# i-122	No char
Dawe, Pie	rs J G	IPtronics			Annex A
Commont		Commont Statua			[B10] ANSI/EIA/T
Comment					Lasers.
IEEE	Std 802.3 uses a 1280-1-3:1998 foi	mixture of ANSI/EIA/TIA-4 its wavelength and spectr	55-127-1991, TIA- al width specs. AN	455-127-A 2006 and NSI/EIA/TIA-455-127-	Delete.
1991 a	and IEC 61280-1-	3:1998 are obsolete. The	are very dated an	id assume one will	38.6.1 Center way
proces	ss the spectral me	easurement by hand (rathe	er than having an in	strument that contains	per ANSI/EIA/T
a com	puter). We shou	ld change to current valid r	eferences. Also, tl	he EIA has split up,	Change
and T	A do not call thei	r document "ANSI".			38.12.4.5 Optical
The n	iggle is: change to	which current reference?			OR2 Center wave
TIA-4	55-127-A 2006 de	fines center wavelength as	s the mean of the s	pectrum, and rms	spectrum analyze
spectr	al width as the st	andard deviation of the spe	ectrum.		Change
IEC 6	1280-1-3 Ed2 der	ines centre wavelength as	the mean of the ha	air-power wavelengths,	50000
iouria	dord doviotion b	it around lombdo o lo lor	nes Rivis spectral v	f the encotrum or the	52.9.2 Center way
a Sidii moon	of the half-nower	wavelengths?	nbua_c the mean of	of the spectrum of the	per TIA/EIA-45
mean	or the nail-power	wavelengtits:			Change 52 15 2 0 Option
On the	one hand interr	ational references are pre	ferred		OM2 Contor way
On the	other hand the	IFC method is sensitive to	changes in the thi	rd or lesser mode so l	ontical spectrum :
would	think would give	less reproducible measure	ment results than t	the TIA method. For	Change
SLM I	asers (DFBs), I de	oubt that there is a signific	ant difference.		Onlange
		5			58.7.2 Wavelengt
IEC sa	ay that their RMS	spectral width is not applie	able to SLM sourc	es.	according to Al
	-				Change
Solw	ould propose that	t we replace all references	to ANSI/EIA/TIA-4	55-127-1991, FOTP-	58.10.3.5 Optical
127					OM3 Wavelength
with					conditions M Yes
TIA-4	55-127-A: 2006 F	OTP-127, Spectral Chara	cterization of Laser	Diodes	And equivalents in
(deleti	ng the obsolete b	ibliography entry);			Change
And th	ne reference entry	in 1.3 for IEC 61280-1-3:	1998 with one for I	EC 61280-1-3:2010.	
Suggested	dRemedy				75.7.4 Wavelengt
Detail	ed remedy follows				No char
Detail		5.			75.10.4.13 Definit
1.3					OM2 Wavelength
ANSI/	EIA/TIA-455-127-	1991. FOTP-127Spectra	Characterization	of Multimode Laser	
Diode	S.				NO CHAI
	Delete.				86 8 4 1 Wavelen
TIA-4	55-127-A:2006 FC	OTP-127-A Basic Spectral	Characterization of	f Laser Diodes.	method given i
	No change ne	eeded.			No char
IEC 6	1280-1-3:1998, Fi	bre optic communication s	ubsystem basic te	st proceduresPart 1-	86.11.4.4 Definitio
3: Tes	t procedures for g	general communication su	bsystemsCentral	wavelength and	SOM2 Center way
spectr	al width measure	ment.			No char
	Replace with:	IEC 61280-1-3 ed2.0: 201	0 Fibre optic com	munication subsystem	
test pr	ocedures - Part 1	-3: General communicatio	n subsystems - Ce	entral wavelength and	87.8.3 Wavelengt
spectr	al width measure	ment.			per TIA/EIA-455-1
1.4.35	W RMS spectral v	vidth: A measure of the op	lical wavelength ra	nge as defined by TIA	No char
455-12	27-A (FUIP-127-	А).			

nge needed.

TIA 455-127-1991 (FOTP-127), Spectral Characterization of Multimode

velength and spectral width measurements

TIA-455-127-1991 [B10].

to TIA-455-127-A, delete "[B10]".

measurement requirements

elength and spectral width measurement conditions 38.6.1 Using optical er per ANSI/EIA/TIA-455-127-1991 [B10] M Yes [] to TIA-455-127-A. delete "[B10]".

velength and spectral width measurements

55-127 under modulated conditions ...

e to TIA-455-127-A.

I measurement requirements

elength and spectral width measurement 52.9.2 Measured using an analyzer per TIA/EIA-455-127 under modulated conditions M Yes [] e to TIA-455-127-A.

th and spectral width measurements

NSI/EIA/TIA-455-127, ...

e to TIA-455-127-A.

measurement requirements

and spectral width 58.7.2 Per TIA/EIA-455-127 under modulated []

in 59 and 60.

to TIA-455-127-A in all three clauses.

th and spectral width measurement ... according to TIA-455-127-A ... nge needed.

tions of optical parameters and measurement methods and spectral width 75.7.4 Per TIA-455-127-A under modulated s[] nge needed.

ngth and spectral width in TIA-455-127-A. nge needed. ions of parameters and measurement methods velength 86.8.4.1 Per TIA-455-127-A M Yes []

nge needed.

th 127-A or IEC 61280-1-3. nge needed.

TYPE: TR/technical required ER/editorial required GR/generation	al required T/technical E/editorial G/general	C/ 58	Page 28 of 41
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 58.7.2	4/16/2012 6:50:55 AM
SORT ORDER: Clause, Subclause, page, line			

87.12.4.4 Optical measurement methods

XLOM2 Center wavelength 87.8.3 Per TIA-455-127-A or IEC 61280-1-3 under modulated conditions M Yes []

No change needed.

And equivalents in 88 and 89.

Response Status C

ACCEPT IN PRINCIPLE.

Response

Apply changes per comment.

Additionally in 1.3 change:

"TIA-455-127-A:2006 FOTP-127-A Basic Spectral Characterization of Laser Diodes" to: "TIA-455-127-A-2006 FOTP-127-A Basic Spectral Characterization of Laser Diodes" (change the colon to a dash)

C/ 64	SC 64	P 0	L 0	#	-97
Thompson, (Geoffrey	GraCaSI S.A.			

Comment Type ER Comment Status R

This comment applies to mainly clauses 64, 65, 66, 75, 76 and 77. There is related text in other clauses. The EPON eco-system has developed and expanded to such an extent that I strongly believe it deserves a separate standard within 802.3. I believe that it would serve the LAN community and 802.3 in particular to separate it out and give it a separate (802.3) identity. This should make EPON easier to expand and maintain and make it easier for the market to relate to its "Distinct Identity" This is not breaking new ground as both 802.1 (albeit with a horrible disignation system) and 802.15 have separate standards within the custody of their Working Groups. We have broken the way within 802.3 in the future as other variants on Ethernet present compelling arguments for standardization within 802.3.

SuggestedRemedy

Remove all text clauses related to EPON and move them to a new standard which I propose to be designated 802.3.2. Do such additional editorial work required to support such a change within those clauses and in other clauses. Leave the existing clause headers in place with a reference to the appropriate clause in the new standard.

Response

Response Status C

REJECT.

1) Both PARs for EPON projects (802.3ah and 802.3av) were brought into 802.3 WG as amendments to the base 802.3 standard and not stand-alone documents.

2) If such an extraction process was to proceed, a new project for this end would be needed. EPON is a successful part of the Ethernet family and if it were to be removed from the base standard, it would need a concurrent project to do so, preventing a situation in which there would be no approved standard for EPON. Thus, any further action on this would require new action by the WG.

CI 70	SC 70.1	P 427	L 28	#	i-115
Dawe, Piers	JG	IPtronics			

Comment Type TR Comment Status R

This PMD clause says "The Clause 36 PCS/PMA when used with 1000BASE-KX PMD shall support full duplex operation only." A PMD clause can't tell the PCS/PMA what to do; that's what the PCS/PMA Clause 36 is for. A similar issue came up in 802.3ba and is now fixed; do similar for this.

SuggestedRemedy

Change this to "The Clause 36 PCS/PMA when used with 1000BASE-KX PMD is required to support full duplex operation only (see 36.1.1)."

At the end of 36.1.1 Scope, add "The 1000BASE-X PCS and PMA when used with the 1000BASE-KX PMD shall support full duplex operation only."

Move the PICS item FD in 70.10.3 to 36.7.3 Major capabilities/options, and adjust the status of FDX to depend on it.

Response Response Status C

REJECT.

The proposed change is outside of scope for Clause 36. Clause 36 is used with half and full duplex. Clause 70 picks a specific subset of Clause 36 functions for use with that PMD.

C/ 71	SC 71.3	P 446	L 50	#	i-116
Dawe, Piers	JG	IPtronics			

Comment Type TR Comment Status R

This PMD clause says "The PCS associated with this PMD shall support the AN service interface primitive AN_LINK.indication defined in 73.9. (See 48.2.7.)" A PMD clause can't tell the PCS/PMA what to do; that's what the PCS/PMA Clause 48 is for, and already "48.2.7 Auto-Negotiation for Backplane Ethernet" says "The following requirements apply to a PCS used with a 10GBASE-KX4 PMD. Support for the Auto-Negotiation process defined in Clause 73 is mandatory. The PCS shall support the primitive AN_LINK.indication(link_status) (see 73.9). ...", with four PICS items in 48.7.4.2. A similar issue came up in 802.3ba and is now fixed; do similar for this.

SuggestedRemedy

Change this to "The PCS associated with this PMD is required to support the AN service interface primitive AN_LINK.indication defined in 73.9. (See 48.2.7.)" In 48.2.7, change "see 73.9" to "see 71.3 and 73.9". Delete the redundant "71.10.4.1 PCS requirements for AN service interface" including item PR1.

Response Response Status C

REJECT.

The PICS in Clause 71 (71.10.4.1 - PR1) describes the service interface primitive. The PICS in Clause 48 (48.7.4.2) describes the PCS function.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 71	Page 29 of 41
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 71.3	4/16/2012 6:50:55 AM
SORT ORDER: Clause, Subclause, page, line			

C/ 71 SC 71.7.1.5	P 453	L 32	# i-146	CI 72	SC 72.5	P 469	L 35	# i-61	
Dawe, Piers J G	IPtronics			Anslow, F	'eter	Ciena Corpor	ration		
Comment Type T C	omment Status A			Commen	t Type T	Comment Status A			
Ambiguous.				Regis	sters 1.150 and	1.151 have been re-named to	"BASE-R PMD c	control" and "BASE-R	
SuggestedRemedy				PMD	status" still ap	pear in Tables 72-2 and 72-3		I AND TUGBASE-KK	
Please specify the base of t	he logarithm, as done 20) times already i	n Section 5.	Suaaeste	∙ . ∂Remedv				
Response Re	esponse Status C			Chan	ige "10GBASE	-KR PMD control" to "BASE-R I	PMD control" in T	Table 72-2 (2 places)	
ACCEPT IN PRINCIPLE.				On pa (4 pla	age 470, chang aces)	ge "10GBASE-KR PMD status"	to "BASE-R PMI	D status" in Table 72-3	
Replace "log" with "log10" ir	the referenced location			Response	е	Response Status C			
CI 72 SC 72.3	P 469	L 3	# i-117	ACCI	EPT.				
Dawe, Piers J G	IPtronics			CI 72	SC 72.7.1	8 P 489	/ 37	# i-139	
Comment Type TR C	omment Status R			Dawe. Pie	ers J G	IPtronics	- 01	<i>"</i> 1100	
This PMD clause says "The interface primitive AN_LINK tell the PCS what to do; that Negotiation for Backplane E with a 10GBASE-KR PMD. is mandatory. The PCS sha 73.9)", with four PICS ite fixed; do similar for this.	PCS associated with thi .indication defined in 73. t's what the PCS Clause thernet" says "The follow Support for the Auto-Neg Il support the primitive AI ms in 49.3.6.5. A simila	S PMD shall sup .9. (See 49.2.16. 49 is for, and all wing requirement gotiation process .N_LINK.indication it issue came up	port the AN service)" A PMD clause can't ready "49.2.16 Auto- ts apply to a PCS used s defined in Clause 73 on(link_status) (see in 802.3ba and is now	Comment The or patte or 3 a than define mear	t Type TR definition for Du rn or sequence as defined in 52 eight symbols (ed as the absol n pulse width of	Comment Status R uty Cycle Distortion is ambiguou is. "The data pattern for jitter n 2.9.1.1.", "The duty cycle distort of alternating polarity.", "The pe lute value of the difference in th f a 1 pulse or the mean pulse w	us, because it's n measurements sl ion test pattern s ak-to-peak duty ie idth of a 0 pulse	ot clear what the hall be test patterns 2 hall consist of no fewer cycle distortion is (as measured at the	
SuggestedRemedy				mear the n	of the high- ar	nd low-voltage levels in a clock- ridth "	-like repeating 01	01 bit sequence) and	
Change this to "The PCS associated with this PMD is required to support the AN service interface primitive AN_LINK.indication defined in 73.9. (See 49.2.16.)" In 49.2.16, change "see 73.9" to "see 72.3 and 73.9".					Is there meant to be a difference between pattern and sequence? Is this definition mean to agree with what scopes have built in to them (mean difference between rising and falli edges of an eye)?				
Delete the redundant "72.10 PR1.	0.4.1 PCS requirements f	for AN service in	iterface" including item	Suggeste	dRemedy				
Response Re	esponse Status C			Chan	ge wording so	that it is clear that Duty Cycle I	Distortion is equiv	alent to that built into	
REJECT.				Response	е.	Response Status			
The PICS in Clause 72 (72)	10.4.1 - PR1) describes t	the service inter	face primitive. The	REJE	ECT.				
PICS in Clause 49 (49.7.4.2) describes the PCS fund	ction.							
				There	e is no specific	remedy provided.			

C/ 72 SC 72.7.1.8

CI 73A SC 73A	P 823	L 30	# <u>i-100</u>	CI 73A SC 7 Ganga Ilango	3A.4	P 825	L 52	# i-101			
Comment Type TR This comment is relate issue. Devices using C Page with EEE messa Whereas, Table 73A-1 message next page. C	Comment Status A ed to my comment submitted of clause 73AN for EEE are requir ge code and unformatted code incorrectly indicates as if unfo orrect text in Table 73A-1.	n Clause 45 re red to send a s in the same p rmatted next p	egarding the same single Message Next bage (See 73A.4). bage is sent after	Comment Type Text in 73A.4 s defined in 45.2 clarify that unu last sentence in not have this a	TR Comm ays, "The content .7.13". However r sed message coo n 73A.3, however s a requirement).	nent Status A ts of the unformatted to all unformatted bits sent with 0 a make this an inform	ed code bits (D4 code bits are de and ignored on re mative statemen	7:D16) shall be as fined in Clause 45. So eceipt (This is similar to it since the 802.3az did			
SuggestedRemedy				SuggestedRemedy	/						
Change text in last row "EEE Technology Mes EEE capability is adve Message Next Page (S	Change last sentence and add the following to the end of first paragraph: "The contents of the unformatted code bits U31: U0 (D47:D16) shall be as defined in 45.2.7.13. The unformatted code field bits that are not defined in 45.2.7.13 are sent as zero and ignored on receipt.										
Response ACCEPT.	Response Status C			Response ACCEPT IN Pf	Respor RINCIPLE.	nse Status C					
C/ 73A SC 73A.1 Ganga, Ilango	P 823 Intel Corporatio	L 36 m	# [i-98	Change last se "The contents 45.2.7.13."	entence to read as of the unformatted	follows: d code bits U31:U0) (D47:D16) shall	be as defined in			
Comment Type ER Change the reference next page function refe	Comment Type ER Comment Status A Change the reference to Clause 73 instead of Clause 28 because Clause 73 defines the next page function referenced in this annex.					Clause 45 already includes a global statements on how undefined bits are set and treated on receipt. No further clarification is needed in 73A.					
SuggestedRemedy Change "See 28.2.3.4"	' to "See 73.7.7"										
Response ACCEPT.	Response Status C										

C/ 73A SC 73A.4

CI 78	SC 78.1.4	P 26	L 22	# i-106	CI 78	SC	78.2	P 51	L 26	# i-108	
Dawe, Piers	s J G	IPtronics			Dawe, Pie	ers J G		IPtronics			
Comment T	ype TR	Comment Status A			Commen	t Type	Е	Comment Status A			
"interfac	ce type": this ter	minology does not match the	sentence before	e or the table itself	"at th	e xMII in	terface" -	tautology			
(style m	nanual: use the s multiple interfac	same name for a thing, every es for one PHY, such as MDI	time) and is not . PMD service in	correct anyway; there iterface	Suggeste	dRemea	ly				
SuggestedF	Remedv	,	,		Change to "at the xMII", once in 78.1.3, three times in 78.2.						
Change	"interface type	to "PHY type". As XGXS is	not a PHY, one o	could change the text	Response	Э		Response Status C			
to "for tl	to "for the IEEE 802.3 PHYs and the XGXS listed in Table 78-1. The table also lists the clauses associated with each PHY or sublayer. Normative requirements for the EEE						ACCEPT.				
clauses capabili	associated with	h each PHY or sublayer. Norm	ative requireme	nts for the EEE	[Edito	or's note:	Page sh	ould be 26. Line should be 511			
type, ar	nd for XGXS, are	e in the associated clauses."	Or, state that wit	thin this clause, XGXS				0 4 5		//	
is treate	ed as a PHY.				Ci 79	SC ok Mich	79.3.2.4	P 45	L 45	# 1-79	
Response		Response Status C			NICCOIMa				ents inc		
ACCEP	T IN PRINCIPL	E.			Commen	t Type	TR	Comment Status R			
Changing "interface type" to "PHY type" in the title of Table 78-1 would be incorrect as XGXS is not a PHY. Change the text of 78.1.4 to: "EEE defines a low power mode of operation for the IEEE 802.3 PHYs and the XGXS				Id be incorrect as	"power source" Value 1 0 is reserved. I assume that is because the authors assumed that a PD would at least be powered by a PSE and not only locally. However, a PD is a valid PD when it is only requesting power, not just receiving it. Many PDs on the market also support local power supplies, as alluded to by the bits in this field, so it is entirely possible to have a PD that is requesting power, is not actively powered by the PSE and yet is operating the data link. What power source is a locally powered PD to report?						
Normati	ive requirement	s for the EEE capability for ea	ich PHY type and	d for XGXS are in the	Suggeste	dRemea	ły				
associa	ted clauses.				Chan	ge table	to read '1	0 = local' or explain.			
CI 78	SC 78.1.4	P 26	L 26	# i-62	Response	е		Response Status C			
Anslow, Pet	er	Ciena Corpora	tion		REJE	CT.					
Comment T Table 7 SuggestedF Make th	ype E 8-1 contains ref Remedy nem links	Comment Status A erences to other clauses with	n the draft, but t	hese are not links	PDs t respo comp imple	that are i onse; the pliant PS mentatio	not power refore, a E. The st ons, there	ed by a PSE will not receive L ocally powered and PSE unpo andard addresses only interac fore the requested change is b	LDP messag owered PD wi tion between beyond the sc	es that require a Il not need to reply to a compliant cope of IEEE 802.3 WG.	
Response ACCEP	т.	Response Status C									

C/ 79 SC 79.3.2.4

CI 79	SC 79.3.2.5	P 46	L 40	# i-80	C/ 81	SC 81.1	P 76	L 3	# i-112			
McCormac	k, Michael	l exas Instrumen	ts Inc		Dawe, Pie	ers J G	IPtronics					
Comment 7 0' is sp approp	Type TR ecifically exclude riate for a PD to v	Comment Status R d as a PD requested power val want to have its input power rer	ue; however, it noved.	may be entirely	Comment Type E Comment Status A "XLGMII interface": tautology. On the previous page we have just said (twice) that XL is an interface.							
Suggestedl	Remedy				Suggeste	dRemedy						
1) Chai	nge the text at to	read " decimal 0 through 255	5."		Delete "interface", here and next line.							
2) Chai "tmpdo !option	nge the label on t _timer_done * !sl _vport_lim + PD_ oction 22.2.4.6 /r	he vector in Section 33.2.4.7, I hort_detected * !ovld_detected request_off"	Figure 33-9, line * !power_not_a	e 50 to read available *	Response ACCE	Response Response Status C ACCEPT.						
"PD_re	equest_off" This f	function returns TRUE if the PS	E receives a "F	PD requested power	C/ 82	SC 82.1.4.2	P 101	L 32	# i-86			
value" o the PS	of zero and FALS	E for all other values received ort a PD power off request.	OR this functio	n returns FALSE if	Trowbridg	ge, Stephen	ALCATEL-LUC	ENT				
Response		Response Status C			Comment	t Type E	Comment Status A					
REJEC	CT.				The c Servi	clause title is PMA ce Interface	Service Interface, but the clau	use content d	escribes a PMA or FEC			
Withou	t other changes r	not included in the comment. it	is likelv that an	unstable condition	Suggeste	dRemedy						
could re and un	esult. Specifically powered states.	y, it is likely that PDs would ind	efinately cycle	between powered	Chan (FEC	ge clause title to ") service interface	Physical Medium Attachment	(PMA) or For	ward Error Correction			
C/ 80	SC 80.5	P 72	/ 22	# li-110	Response	9	Response Status C					
Dawe, Piers	s J G	IPtronics			ACCE	EPT.						
Comment 7	Туре Е	Comment Status A			C/ 82	SC 82.1.5	P 102	L 9	# [i <u>-</u> 147			
Table f	ootnotes are norr	native, per style manual. Writi	ng "Note that" o	confuses, adds	Dawe, Pie	ers J G	IPtronics					
notning	, and is equally a	applicable to nundreds of other	toothotes.		Comment	t Type ER	Comment Status A					
Suggestedi	Remedy				Rogu	e ALL CAPITALS	in Figure 82-2 Functional bloc	k diagram. 1	This is not a "layer			
For cor	nsistency, delete	"Note that", four times.			diagra	am" for which an e	exemption to the rules was write	tten. There a	re very few block			
Response		Response Status C			diagra	ams like this in 80	2.3. Figure 83-5 PMA Functio	onal Block Dia	agram, Figure 85-2,			
ACCEF	PT IN PRINCIPLE				Pigur		use mixeu case.					
Simply	deleting "Note th	at" would leave the footnote st	arting with the a	approximately equal	Suggeste	aremeay		Corombio or				
to sign.						Please change ENCODE to Encode, SCRAMBLE to Scramble, and so on.						
Change "Note that" to "The symbol" in four places.						9	Response Status C					
					ACCE	EPT.						

C/ 82 SC 82.1.5

C/ 82 SC 82.2.1 P 103 L 40 # i-87 Trowbridge, Stephen ALCATFI -I UCENT Image: Stephen	C/ 82 SC 82.2.3.3 P 107 L 17 # i-113 Dawe, Piers J G IPtronics							
Comment Type T Comment Status A The statement "When the receive channel is in test-pattern mode, the BER monitor process is disabled." was copied from clause 49, where test patterns were PRBS that did not have sync headers. But the only test pattern that makes it to the PCS for 40/100GBASE-R is scrambled idle which does have sync headers, and it seems there would be no reason to disable BER monitoring for this.	Comment Type E Comment Status A "XLGMII/CGMII interface": tautology, not the usual name used in this clause (which is j "XLGMII/CGMII"). SuggestedRemedy Delete "interface" after "XLGMII/CGMII", four times in this clause.							
SuggestedRemedy Since existing implementations likely disable BER monitor during the test pattern, it is probably not good to remove this altogether and leave the idea that BER monitoring is required. But consider changing to "the BER monitor process may be disabled" so that future implementations don't need to do something unnecessary. Response Response Status C	Response Response Status C ACCEPT IN PRINCIPLE. Change: "XLGMII/CGMII interface" to: "XLGMII/CGMII" in four places in Clause 82							
Change: "When the receive channel is in test-pattern mode, the BER monitor process is disabled." to: "When the receive channel is in test-pattern mode, the BER monitor process may be disabled." C/ 82 SC 82.2.18.1 P 117 L 5 # i-109 Dawe, Piers J G IPtronics	C/ 82 SC 82.6 P124 L5 # 1-71 Healey, Adam LSI Corporation Comment Type TR Comment Status A This subclause states that "The PCS shall support the primitive AN_LINK.indication(link_status) (see 73.973.9). The parameter link_status shall take the value FAIL when PCS_status=false and the value OK when PCS_status=true." However, the value of PCS_status is not defined. SuggestedRemedy Define PCS_status to be align_status = TRUE and hi_ber = FALSE. Response Response Status C ACCEPT IN PRINCIPLE. Add a variable to 82.2.18.2.2: PCS_status PCS_status A Boolean variable that is true when align_status is true and hi_ber is false							
Comment Type E Comment Status R "is comprised of" is dubious English: a collective comprises its parts, not the other way round. See a dictionary. SuggestedRemedy								
As in clauses 74 and 76, change "The body of this subclause is comprised of state diagrams" to "The body of this subclause is comprises state diagrams". Also in 78.4.2.1. (Alternatives are comprises, contains, or consists of.) <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Res</i>								
In 3 instances it is followed by "comprised of In 3 instances it is followed by "comprises" In total there are 20 instances of "is comprised of" and 72 instances of "comprises". "is comprised of", while considered incorrect by purists, is commonly used (125 million results from a well known search engine compared to 152 million for comprises).								

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 82.6 Page 34 of 41 4/16/2012 6:50:56 AM

C/ 83 SC 83.4 P 143 L 2 # [i-88] Trowbridge, Stephen ALCATEL-LUCENT Image: Compare the second	C/ 83B SC 83B.2.2 P 362 L 22 # i-125 Dawe, Piers J G IPtronics
Comment Type E Comment Status R Inconsistency from "XLAUI/CAUI or nPPI" SuggestedRemedy Change to "XLAUI/CAUI or XLPPI/CPPI". Same on lines 13, 39.	Comment TypeTRComment StatusRWhile checking the common-mode return loss specs I noticed that while the module had such a spec, the host did not. This spec, together with the output AC common-mode voltage, contains the AC common-mode voltage in service. The inputs can have a high common-mode impedance, so if the output is allowed to have a very bad common-mode
Response Response Status C REJECT.	return loss, the VSWR of the common mode is unbounded at certain frequencies, and so the common mode voltage can be multiplied up. Even a small common-mode loss will keep this under control. A very relaxed spec would be better than no spec (a relaxed spec is needed to allow higher bandwidth connectors).
XLAUI/CAUI (111 instances) and nPPI (50 instances). Clause 1 contains: 1.4.275 nPPI: The term "nPPI" denotes either XLPPI or CPPI or both. (See IEEE Std 802.3, Annex 86A.) There are only 3 instances of XLPPI/CPPI in the draft, making the proposed change less consistent.	SuggestedRemedy Here is a straw man; I expect to bring a refined proposal. Note the corner frequency is much lower, and the high frequency regime follows twice the HCB insertion loss. Minimum host common-mode output return loss HCB output TP1a See Equation (86A-2) dB Return_loss >= (7-24.5f 0.01<=f<=0.25) dB (86A-2)
2/ 83A SC 83A.5.2 P 349 L 23 # i-114 Dawe, Piers J G IPtronics Comment Type TR Comment Status A "The XLAUI/CAUI jitter tolerance test setup in figure 83A-15 or its functional equivalent". Functional specs are in e.g. 83.5 Functions within the PMA, 85.7 PMD functional specifications, and they are mostly about bits and bytes and topology: just the "digital"	(0.52 + 0.6sqrt(f) + 0.22f 0.25<=f<=11.1) Response Response Status C REJECT. The Suggested remedy here has no supporting evidence for the values proposed. Equations in Suggested remedy evaluate to: 6.755 dB at 0.01 GHz
function, not the analog detail. Functional is less than electrical. Here in an analog test setup, we need the right analog, electrical behaviour. SuggestedRemedy Change "functional" to "electrical".	4.961 dB at 11.1 GHz Which doesn't seem correct.
Response Response Status C ACCEPT IN PRINCIPLE. Change: "The XLAUI/CAUI jitter tolerance test setup in Figure 83A-15 or its functional equivalent shall." to:	Palkert, Thomas Luxtera Comment Type GR Comment Status A ICN for CR10 and SR10 needs to be increased SuggestedRemedy Change Near end integrated crosstalk noise from .7 to 3.0
"The XLAUI/CAUI jitter tolerance test setup in Figure 83A-15 or its equivalent shall."	Change Far end integrated crosstalk noise from 2.5 to 4.0 Change MDNEXT integrated crosstalk noise from 1 to 3.0 Change MDFEXT integrated crosstalk noise from 3.5 to 5.0 <i>Response</i> <i>Response Status</i> ACCEPT IN PRINCIPLE. Make the ICN changes recommended by the ICN ad hoc in: http://www.ieee802.org/3/maint/anslow_3_0312.pdf See also comment #63

TYPE: TR/technical required ER/editorial required GR/gener	C/ 85	Page 35 of 41	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 85.10.9	4/16/2012 6:50:56 AM
SORT ORDER: Clause, Subclause, page, line			

Cl 85 Dawe, Pie	SC 85.13.3 ers J G	P 215 IPtronics	L 1	# i-107	<i>Cl</i> 85 Ran, Adee	SC 85.8.3	P 184	L 21	# i-150		
Comment "85.13 40GB functio not ma	<i>Type</i> E <i>C</i> 3.4 Major capabilities/ ASE-CR4 and 100GE onal specifications" sh atch other 40G/100G	Comment Status A options" should come be BASE-CR10 PMDs and b hould not be a subordina PICS.	fore "85.13.3 P aseband mediu te subclause of	ICS proforma tables for m" and "85.13.4.1 PMD 85.13.4. Wording does	Comment Some rate s So co	<i>Type</i> E of the reference hould be 85.8.3. rrect the reference dRemedy	Comment Status A es in Table 85-5 are incorn 9 instead the reference in ces as proposed.	rect. For example, t correctly points to a	he reference to signaling 35.8.3.8, which is DDJ.		
Suggestee 85.13. 85.13. baseb 85.13. Response ACCE	dRemedy .3 Major capabilities/c .4 PICS proforma tab band medium, types 4 .4.1 PMD functional s e R EPT IN PRINCIPLE.	options les for Physical Medium 0GBASE-CR4 and 100G pecifications esponse Status C	Dependent (PN BASE-CR10"	ID) sublayer and	"Signaling rate per lane: Change reference from 85.8.3.8 to 85.8.3.9 Make a similar change to corresponding PICS-DS5 on page 219: Change reference fro 85.8.3.8 to 85.8.3.9 Unit interval nominal: Change reference from 85.8.3.8 to 85.8.3.9 Differential peak-to-peak output voltage (max) with Tx disabled: Change reference from 85.8.3.3 to 72.7.1.4 where diff peak-to-peak output with TX disabled is defined. Make a similar change in Table 85A-1 on page 373. In Table footnote (f): DDJ is measured with PRBS9 as specified in 83.5.10. Change this						
Move Chang "85.13 baseb	85.13.4 Major capabi ge the PICS proforma 3.4 PICS proforma tak and medium, type 40	lities/options to be above tables heading to be: bles for Physical Medium GBASE-CR4 and 100GE	e the "PICS prot Dependent (PI BASE-CR10"	forma tables ." heading. MD) sublayer and	Response ACCE Make	PT IN PRINCIP	Response Status C				
Cl 85 Ran, Adee	SC 85.13.4.2	P 218	L 8	# i-151	for Di 85.8.3 Make	fferential peak-to 3.3. Do the sam	o-peak output voltage (ma e in Table 85A-1 otnote f	x) with Tx disabled:	delete reference to		
Comment Refere specif	Type E C ence for PICS MF2 is ies PMD lane by lane s Global PMD signal	Comment Status A incorrect. Current refere disable function. Instead	nce points to su d this reference	ubclause 85.7.7, which should be 85.7.4, which	<i>Cl</i> 85 Dawe, Pie	SC 85.8.3 ers J G	P 184 IPtronics	L 31	# [i-105		
Suggested for PI	dRemedy CS MF2: Change refe	rence from 85.7.7 to 85.	7.4		Comment "Tran InfiniE	<i>Type</i> TR smitter DC ampl Band call it "stea	Comment Status R itude" is misnamed; it is n dy-state output voltage".	ot a DC amplitude.	Fibre Channel and		
Response ACCE	e Ro EPT.	esponse Status C			Suggeste Rena	<i>dRemedy</i> me to "Steady-s	tate Output Voltage"				
					Response REJE	e CT.	Response Status C				
					The T "The t divide	ransmitter DC a transmitter DC a d by M from ste	mplitude has a very preci mplitude is the sum of ling p 3)"	se definition in note ear fit pulse respon	b: se p(k) from step 3)		
					Re-na some	aming this to be thing different w	"Steady-state output volta ould be likely to cause con	ge" as used by oth nfusion.	er standards for		

Page 36 of 41 4/16/2012 6:50:56 AM

C/ 85 SC	85.8.3	P 184	L 44	# <u>i-140</u>		CI 85	SC 8	5.8.3	P 18	5	L 1	# i-141
Dawe, Piers J G		IPtronics				Dawe, Piers	JG		IPtroni	CS		
Comment Type Surprisingly methodolog 8B/10B not	TR , random jitt ies, has son scrambled s	Comment Status R ter (or Random Jitter) is not ne formulae for Dual Dirac signals, and uses RJ_RMS	defined. 48B.3, method, but it is i which I think is n	Jitter output test nformative, written fo ot what is meant here	or e.	Comment T Surprisi 12 mea procedu Jitter ou	/pe ngly, to sured p re resu tput tes	TR tal jitter (er 83A.5 Iting in a st metho	Comment Status (or Total Jitter) is not of 5.1". 83A.5.1 says " BER bathtub curve s dologies, has some fo	R defined. This Transmit jitte such as that o prmulae for D	s says "Total j er is defined w described in A Dual Dirac met	itter at a BER of 10- vith respect to a test nnex 48B.3." 48B.3, thod. but it is
L don't have	<i>edy</i> a good rem	edv right now. Maybe Fibr	Channel has a	definition somewhere	2	informa	ive and	written	for 8B/10B not scram	bled signals.		,
Response	a good ioni	Response Status C				SuggestedF	Remedy					
REJECT.						I don't h Or it mig with rea	ave a g ght be b sonable	ood rem better to e accura	replace the TJ-DDJ s cy in a reasonable tim	e Fibre Char pec with a JS ie.	nel has a def)-DDJ spec - (inition somewhere. easier to measure
There is no	suggested r	emedy provided. The comr	nenter is invited t	o provide a proposed r	b	Response			Response Status	с		
						REJEC	Г.					
Dawe, Piers J G	\$ 85.8.3	P 184 IPtronics	L 46	# <u>1-142</u>		There is revision	no sug of the	gested i draft text	remedy provided. The to address the issue	commenter for the BRC	is invited to p to consider.	rovide a proposed
Comment Type If RJ<=0.15	TR how can T	Comment Status R J-DDJ be as large as 0.25?	SJ and PJ shou	ld be <<0.1.		Cl 85	SC 8	5.8.4.2	P 19	4	L 26	# i-133
SuggestedReme	edy					Comment T	J G	тр	Comment Status	∧		
? Response REJECT.		Response Status C				Table 8 contains coefficie By appl	5-8, 100 one "t ents" se /ing an	GBASE- arget", o ems to c arbitraril	CR4 and 10GBASE-C ne "maximum" and fo contradict 85.8.4.2.3's ly large amount of jitte	CR10 interfer ur "min". Th "minimum fi er, this spec	ence toleranc e "Maximum tted insertion can fail anythi	e parameters, fitted insertion loss loss coefficients". ng.
There is no definition of the BRC to	suggested r the problem consider.	remedy provided. The comr a and a proposed revision o	nenter is invited t f the draft text to	o provide a better address the issue fo	r	SuggestedF Change	emedy "Targe	t BER" t	o "maximum BER" (o	r delete it).		
CI 85 SC	85.8.3	P 185	L 1	# i <u>-</u> 143		Change Delete "	min", fi	ve times	in this table.	cients" to "Fi	tted insertion	IOSS COEfficients".
Dawe, Piers J G		IPtronics				Response			Response Status	с		
Comment Type	TR	Comment Status R				ACCEP	t in pf	RINCIPL	E.			
I doubt that meant.	where the d	lraft says "random jitter" it n	neans it. I expect	Random Jitter is		Change	"Targe "Maxin	t BER" t	o "Maximum BER" d insertion loss coeffi	cients" to "Fi	tted insertion	loss coefficients"
SuggestedReme Decide what	edy t is meant, a	and use capitals for Randor	n Jitter and Total	Jitter as appropriate		Delete "	min", fi	ve times	in this table.			
Response REJECT.		Response Status C										
Since rando appropriate.	m jitter and	total jitter are not formally o	lefined terms, the	e case shown here is	i							
TYPE: TR/techn	ical required	d ER/editorial required GR	/general required	T/technical E/edito	orial G/ge	neral				C/ 85		Page 37 of 41

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

SC 85.8.4.2

4/16/2012 6:50:56 AM

C/ 85 SC 85.8.4.2 Dawe, Piers J G	P 194 IPtronics	L 31	# i-134	<i>Cl</i> 85 Dawe, Pie	SC 85.8.4.2.3 ers J G	B P 195 IPtronics	L 43	# i-136
Comment Type E Why are the two entri Calibrated ICN (min, I	Comment Status A es Calibrated far-end crosstal RMS) - sigma_nx in the same	k (min RMS) table row?		<i>Comment</i> The fit they a	<i>Type</i> T tted insertion loss are part of the test	Comment Status R coefficients are not really	properties of som	ething under test (LUT);
SuggestedRemedy				Suggestee	dRemedy			
Put each in its own ta	ble row.			Consi	der changing to	The fitted insertion loss co	efficients of the te	est channel lane under
Response ACCEPT.	Response Status C			Response RE IE	or better wording,). Response Status C		
Cl 85 SC 85.8.4.2 Dawe, Piers J G Comment Type E	2.3 P 195 IPtronics Comment Status A	L 37	# [<u>i-138</u>	This c it is er test (L	elause is titled "Te ntirely appropriate .UT)"	est channel calibration" i.e. to discuss "The fitted inse	it is about measu rtion loss coeffici	ring the test channel, so ents of the lane under
Font too small.				C/ 85	SC 85.8.4.2.4	P 196	L 13	# li-137
SuggestedRemedy				Dawe, Pie	ers J G	IPtronics	-	
Change 7.5 point to 8	point. Change font to be con	isistent with the i	rest of the figure.	Comment	Type TR	Comment Status R		
Response	Response Status C			This is	sn't a device spec	. We specify ports: combine	nation of IC, PCB	and connector.
ACCEPT.	2.3 <i>P</i> 195	/ 43	# i-135	Suggested Chang	dRemedy ge "device" to "red	ceiver".		
Dawe, Piers J G	IPtronics	•		Response	,	Response Status C		
Comment Type T The fitted insertion los procedure in 85.10.2.	Comment Status A ss coefficients of the lane und are not "minimum". They are	er test (LUT), de experimental fir	rived using the fitting	REJE A rece	CT. eiver is an examp	le of a more generic term "	device". The pro	posed change does not
SuggestedRemedy Delete "minimum".				impro	ve the draft.			
Response	Response Status C							

ACCEPT.

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

C/ 85 SC 85.8.4.2.4 Page 38 of 41 4/16/2012 6:50:56 AM

C/ 86 SC 86.7.1	P 231	/ 42	# li-91	C/ 86A	SC 86A.4.1	P 380	/ 30	# li-104	
Petrilla, John	Avago Tech	nologies	"	Dawe, Pier	rs J G	IPtronics			
Petrilla, John Avago Technologies Comment Type T Comment Status A Footnote c only addresses OM3 fiber. Shouldn't OM4 fiber be included? SuggestedRemedy Change, "If measured into type A1a.2 50 im fiber in accordance with IEC 61280-1-4." to "If measured into type A1a.2 50 im fiber or into type A1a.3 50 im fiber in accordance with IEC 61280-1-4." Response Response Status C ACCEPT IN PRINCIPLE. Change: "If measured into type A1a.2 50 um fiber in accordance with IEC 61280-1-4." to:				Dawe, Piers J G IPtronics Comment Type TR Comment Status R We have common-mode generation specs and impedance mismatch specs; therefore we need the compliance boards to support common-mode signals. Abandoning common-mode reflection specs altogether would be a step too far, would leave possible resonances out of control and defeat the specs mentioned. This is true whether or not you believe that common-mode reflection specs are needed to limit EMI." SuggestedRemedy Restore all the common-mode specifications of 802.3ba (83B, 85, 86A: inputs, outputs, hosts, modules, cables and compliance boards) but with different (generally more relaxed) limits that take the characteristics of connectors and compliance boards into account better, and with the following additional differences: Relax the common-mode input or output return loss spec of mated HCB-MCB looking into					
"If measured into typ	e A1a.2 or type A1a.3 50 un	n fiber in accorda	in accordance with IEC 61280-1-4."	MCB; Delete the common-mode input or output return loss spec of mated HCB-MCB looking into HCB; Add mask for max common-mode insertion loss spec of mated HCB-MCB (looking either way, input or output); Add spec for max integrated common-mode insertion loss of mated HCB-MCB (looking either way, input or output), using the integration method for integrated crosstalk noise; Add a differential to common-mode return loss spec for the mated compliance boards. These improvements to apply to Clause 85 "test fixtures" the same as to Annex 86A compliance boards.					
				Response		Response Status C			
				REJEC	CT.				
				This commo commo betwee	omment seeks to ents #146 to #15 en common-mod	o reverse the removal of the o o against D2.0 without estab le return loss and unacceptat	common-mode r lishing that there ole performance	eturn loss specs due to e is indeed a correlation or providing a proposal	

performance.

C/ 86A SC 86A.4.1

for relaxed limits and evidence that the relaxed limit proposed will ensure adequate

Cl 86A SC 86A.4. Palkert, Thomas	1 <i>P</i> 380 Luxtera	L 40	# i-63	<i>Cl</i> 99 Dawe, Pi	SC 99 ers J G	P 5 IPtronics	L 52	# i-148
Comment Type GR CXP ICN needs to b	Comment Status A e increased. This will affect the	Qsq of SR10 des	igns.	<i>Commen</i> There	<i>t Type</i> T e's only one Phys	Comment Status R sical Layer.		
SuggestedRemedy Change Qsq from 4	5 to 40.			Suggeste "Phys	edRemedy sical Layers and	sublayers" to "Physical Layer a	and sublayer typ	bes"
Response ACCEPT IN PRINC	Response Status C IPLE.			Response REJE	e ECT.	Response Status C		
Change the Qsq min	nimum in Table 86A-1 for CPPI	only from 45 to 43	3 as recommended by	There	e are multiple phy	vsical layers specified by the 8	02.3 specificati	on
the ICN ad noc.	<i>‡</i> 64			<i>Cl</i> 99 Dawe, Pi	SC 99 ers J G	P 6 IPtronics	L 51	# i-130
Cl 86A SC 86A.5. Dawe, Piers J G Comment Type TR If we revisit the MCE noise of the mated H frequency range is C receiver bandwidth is reference receiver b SuggestedRemedy If we revisit the MCE exception that the fr 86A-X according to receiver bandwidth of range is 0.01 GHz to with limits that are c	P 388 IPtronics Comment Status R 3-HCB crosstalk specs: this say 4CB and MCB are as specified in 0.01 GHz to 12 GHz." but there is n this clause is 12 GHz while in andwidth, which is set to 7.5 GH 3-HCB crosstalk specs, change equency range is 0.01 GHz to 1 the method of 85.10.9.4 with the of Equation (85-28) and Equation 0.12 GHz.", and insert a new Ta onsistent with this.	L 33 s "The limits on in n 85.10.9.4 with t s another differen 85.10.7 "In additi- tz." "are as specified 2 GHz." to "are as e exceptions that t n (85-29) is 12 GH ble 86A-X in the s	# i-129 tegrated crosstalk he exception that the ce: the reference on, fr is the 3 dB in 85.10.9.4 with the s specified by Table he 3 dB reference Hz, and the frequency tyle of Table 85-12	Commen This URL. It's nu we us IEEE be cc Suggeste Chan Response ACCI Comm text	t Type E draft says "Errata ot so. IEEE is no se, with errata els standards errata omprehensive." edRemedy nge "all other" to ' e EPT IN PRINCIP ment will be forw	Comment Status A a, if any, for this and all other sit t the whole world; there are ple sewhere. In any case the web s a and or corrections are online, "other IEEE". <i>Response Status</i> C ILE. arded to staff for consideration	tandards can be onty of other sta site denies it: "N this list should upon publicatio	e accessed at" an IEEE ndards, including ones lot all of the available not be considered to on as this is boiler plate
Response REJECT.	Response Status C							

The ICN Ad Hoc consensus was to leave the 3 dB reference receiver bandwidth (fr) used by Clause 86A in Equation (85-28) and Equation (85-29) unchanged at 7.5 GHz as this is expected to be well correlated with the ICN measured with a 12GHz reference receiver bandwidth. See also comment #63

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/ 99 SC 99

CI E	SC E	P 598	L1	# i-48	CI G SC G	P 601	L8	# i-46		
Thaler, Pa	itricia	Broadcom Co	rporation		Thaler, Patricia	Broadcom C	orporation			
Comment	Type G	Comment Status A			Comment Type T	Comment Status A				
A strar specifi make	nge annex - I dor ied wavelength ir your receiver tol	n't recall the history at this point of the second of the	int, but this ann ct it to be follow , since 9.9 is dp	ex seems to say, we ed so you might want to perecated, we should	Since this Annex a also have a deprec SuggestedRemedy	applies to Clause 19, and Clause cation note?	e 19 is deprecated	d, should this clause		
uepieu					Add the note.					
Suggested	JRemedy				Response	Response Status C				
Depre	cate the annex.									
Response	t	Response Status C								
ACCE	PT IN PRINCIPI	LE.			Add the following note at the beginning of the clause:					
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