C/ FM SC FM Zimmerman, George	P 1 CME Consult	L1	# 77	C/ FM SC Fl Chalupsky, David	M P		# 74
		ing, inc.					
Comment Type E Amendment is to IE editor prior to spons	Comment Status A EEE Std. 802.3-2015 as amended	d by (list to be a	dded by publication	21	E Comment Statu ing group ballot	s A	
SuggestedRemedy	,			SuggestedRemedy replace "Task F	Force Review" with "Workin	g Group ballot"	
the draft).	2 as per comment (the list itself	is really long and	d subject to the order of	Response ACCEPT.	Response Status	s C	
Response	Response Status C			ACCEPT.			
ACCEPT.				CI FM SC FI	M P	1 L 28	# 78
C/FM SC FM	P1	L 2	# 7	Zimmerman, Georg	e CM	E Consulting, Inc.	
Remein, Duane	Huawei			51	E Comment Statu initial working group ballot		
Comment Type ER	Comment Status A				initial working group ballot	THOU LASK TOTCE TEVIEW	
"Amendment of " : SuggestedRemedy	Should list all pervious amendm	ents.		SuggestedRemedy Change text fro	m "for Task Force Review'	to "Working Group ballo	t recirculation"
Change to "Amendr 2015, IEEE Std 802 IEEE Std 802.3bq™	ment of IEEE Std 802.3™-2015 ; 2.3by™-2016, ^w -2016, IEEE Std 802.3bp™-2016 5, and IEEE Std 802.3bn™-2016	6, IEEE Std 80	2.3br™-2016, IEEE	(assuming it is Response ACCEPT.	on draft 2.1) <i>Response Statu</i> s	s C	
with Pete Anslow fo		(There might p		C/FM SC F	M P	2 L1	# 76
Response	Response Status C			Zimmerman, Georg	e CM	E Consulting, Inc.	
ACCEPT.				Comment Type	E Comment Statu	s A	
C/FM SC FM	P 1	L 25	# 28		to be missing the word "a (PHY) specifications and"	dds": "This amendment to	DIEEE Std 802.3-2015
Anslow, Pete	Ciena			SuggestedRemedy			
Comment Type E The initial text shoul	Comment Status A Id list the other amendments (as	announced so	far).		"adds" to read: "This amer ecifications and"	idment to IEEE Std 802.3	3-2015 adds Physical
This draft is for Wor	rking Group ballot, not Task Ford	e review.		Response	Response Statu	s C	
SuggestedRemedy				, ACCEPT.		-	
"This draft is an ame 2015, IEEE Std 802 802.3br-2016, IEEE and IEEE Std 802.3	D2.0 is prepared for Task Force	5 as amended b 016, IEEE Std 8 02.3bz-2016, IEE	02.3bp-2016, IEEE Std EE Std 802.3bu-201x,				
Response	Response Status C						
ACCEPT.							
	uired ER/editorial required GR/)/dispatched A/accepted R/reject , Subclause, page, line				sfied Z/withdrawn	C/ FM SC FM	Page 1 of 23 2017/01/29 1:33:

Comment Type ER Comment Status A Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) throu Missing list of WG participants SuggestedRemedy	# 10
"P802.3cc Task Force name" should be "P802.3cc 25 Gb/s Ethernet over single-mode fiber Task Force" I agree with the Editors note that you should list all amendment here. SuggestedRemedy Change "P802.3cc Task Force name" to "P802.3cc 25 Gb/s Ethernet over single-mode fiber Task Force" in two places I agree with the Editors note that you should list all amendment here. Response Response Status C ACCEPT. C/ FM SC FM P10 L 31 C/ FM SC FM P10 L 31 Remein, Duane Huawei Comment Status A Missing list of WG participants Missing list of WG participants SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy P10 L 31 Anslow, Pete Ciena Comment Type E Comment Status A Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) througa 802.3bv-201x) SuggestedRemedy SuggestedRemedy	
SuggestedRemedy Change "P802.3cc Task Force name" to "P802.3cc 25 Gb/s Ethernet over single-mode Please update to current amendment list (get from Pete Anslow) Response Response Status C ACCEPT. ACCEPT. C/ FM SC FM P10 L 31 C/ FM SC FM P10 L 31 Remein, Duane Huawei Comment Type ER Comment Status Missing list of WG participants A SuggestedRemedy SuggestedRemedy	
ACCEPT. C/ FM SC FM P 10 L 31 C/ FM SC FM P 10 L 31 Remein, Duane Huawei Ciena Ciena Comment Type ER Comment Status A Missing list of WG participants Missing list of WG participants Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) through 802.3bv-201x) SuggestedRemedy SuggestedRemedy	
C/ FM SC FM P 7 L 16 # 8 Remein, Duane Huawei Anslow, Pete Ciena Comment Type ER Comment Status A Missing list of WG participants Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) through 802.3bv-201x) SuggestedRemedy SuggestedRemedy	
Comment Type ER Comment Status A Missing list of WG participants Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) through 802.3bv-201x) SuggestedRemedy SuggestedRemedy	# 30
Missing list of WG participants 802.3bv-201x) SuggestedRemedy SuggestedRemedy	
SuggestedRemedy	ugh 9 (IEEE Std
Get list from Mr. Law (or Pete Anslow) and incorporate in draft. 802.3bv-201x)	ugh 9 (IEEE Std
Response Response Status C Response Response Status C ACCEPT. ACCEPT. ACCEPT.	
C/FM SC FM P10 L25 # 79 C/00 SC 0 P L	# 101
Zimmerman, George CME Consulting, Inc. Kimber, Mark Semtech	
Comment Type E Comment Status A Comment Type E Comment Status E 802.3bq is approved, and should be 802.3bq-2016, as well as a number of other amendments already approved	
SuggestedRemedy (Error)	
Get the latest list of approved amendments and amendments ahead of this draft and insert into the section. Editor's note to remain, as it is relevant to drafts that are concurrent with this one. Proposed Response Response Status W (Error)	
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/ 00 SC 0

C/ 00 SC 0		L 28	# 99	Cl 1	SC 1.4.178	-	L 16	# 1
Thompson, Geoff	GraCaSI S.A.			Ran, Adee		Intel		
Comment Type ER	Comment Status A			Comment		Comment Status R		
Descriptive paragraph	says this is for Task Force revi	ew. This is a V	Vorking Group Ballot.		naving a definit for a reader.	ion for DGD is a good idea, thi	s definition is und	clear and not very
uggestedRemedy				neipiui	lor a reader.			
Change from: "Task Fo	orce". Change text to: "Working	Group".			are "fractions of			
lesponse	Response Status C					ncipal state of polatization"? smitted in two polarization state	es or received in t	two polarization
ACCEPT.				states?	?	·		
X 00 SC 0	P1	L 31	# 9			of a medium or of a transmitte like a definition of a point in tin		v two points in time
emein, Duane	Huawei	-01			ted by the DG			
Comment Type ER	Comment Status A			lassur	ne that it is the	difference in propagation time	over an optical n	nedium. between tv
Update copyright date				perpen	idicular polariza	ation modes (e.g. x and y). This	s does not involve	e a pulse or its
SuggestedRemedy				fraction propert		r or or a receiver, just propaga	tion time which is	a basic physical
to 2017 in FM and foot	er of all Masters			Suggested	•			
Response	Response Status C			00		Alternatively if this definition is	based on some	external document
ACCEPT IN PRINCIPL	.Е.				that documen			
Undeted to 2017, but fi	nal year depends on completio	n data		Response		Response Status C		
		n uale.		REJEC	CT.			
C/00 SC 0	P 2	L 1	# 100	The wo	ordina in the de	finition is identical to what was	previously a foot	t note in prior
hompson, Geoff	GraCaSI S.A.			standa	rds. Since the	wording of the footnote was su		
Comment Type E	Comment Status A			need to	o enhance the	explanation in the definition.		
Abstract text is not a w	hole sentence			C/ 30	SC 30.5.1.1	.2 P 16	L 12	# 80
uggestedRemedy				Zimmermai	n, George	CME Consult	ng, Inc.	
Make abstract words in	nto a sentence.			Comment	Туре Е	Comment Status R		
Response	Response Status C					erted in lists in alphanumerical		
ACCEPT.						R Commenter notes that oth sed up in ordering too.	er 802.3-2015 er	ntries for BASE-xR
				Suggested	Remedy			
				Reorde	er alphanumeri	cally and change the insertion	point as appropria	ate
				Response		Response Status C		
				REJEC	CT.			
				Follow	e camo ordor o	C 100GBASE_VV which has th	e ordering SP4	
				Follows	s same order a	s 100GBASE-xx, which has th	e ordering SR4, S	5R10, LR4, ER4

C/ 30 SC 30.5.1.1.2 Page 3 of 23 2017/01/29 1:33:32

C/ 30 SC 30.5.1.1.2 Anslow, Pete	<i>P</i> 16 Ciena	L 12	# 31	C/ 45 SC 45.2.1.6 Lusted, Kent	P 17 Intel	L 17	# 20
	Comment Status A nas inserted an entry for 25 the editing instruction need			Comment Type ER (In table 45-7, the PMA/PMI values.	Comment Status A D control 2 register bit de	efinitions does not	list the reserved
end of the editing instruc Response ACCEPT IN PRINCIPLE	Response Status C		02.3bq-2016)" to the	There already is an editors do it! :) SuggestedRemedy Add the reserved bit definit Response R ACCEPT IN PRINCIPLE.		finitions "later". N	ow is a great time to
C/ 45 SC 45.2.1.6 Remein, Duane	P 17 Huawei	L 10	# 11	Comments #11, #20 addre	ess same point. Confirm o	definitions before	adding.
Commentivoe E							
Not quite all changes rov SuggestedRemedy Change editing instructio 25GBASE PMDs as follo shown). Change "reserve approved amendments:" changed.	Comment Status A vs are shown as the reserv n: "Change the PMA/PMD ws (only Bits, Name, R/W ad" line(s) as appropriate for Note this is quoted from m Response Status C	type selection rov and, added Desci or values defined I	v in Table 45–7 to add iption text in row is by this and other	IEEE Std 802.3bq-2016 ha In order to be clear, the edi SuggestedRemedy Change "as follows" to "and as follows".	iting instruction needs to	account for this.	
Not quite all changes rov SuggestedRemedy Change editing instruction 25GBASE PMDs as follow shown). Change "reserved approved amendments." changed. Response ACCEPT IN PRINCIPLE Comments #11, #20 add C/ 45 SC 45.2.1.6	rs are shown as the reserv n: "Change the PMA/PMD ws (only Bits, Name, R/W ; d" line(s) as appropriate fo Note this is quoted from m <i>Response Status</i> C	type selection row and, added Descr or values defined l lost recent amend definitions before a	v in Table 45–7 to add iption text in row is by this and other ment with PMD name	Comment TypeEIEEE Std 802.3bq-2016 haIn order to be clear, the editSuggestedRemedyChange "as follows" to "andas follows".ResponseACCEPT.CI 45SC 45.2.1.7.5Anslow, PeteComment TypeE	Comment Status A as inserted a row for 25G liting instruction needs to d before 25GBASE-T (as Response Status C P 17 Ciena Comment Status A	account for this. s inserted by IEEE	5 Std 802.3bq-2016) # <u>33</u>
Not quite all changes rov SuggestedRemedy Change editing instructio 25GBASE PMDs as follo shown). Change "reserve approved amendments." changed. Response ACCEPT IN PRINCIPLE Comments #11, #20 add CI 45 SC 45.2.1.6 Zimmerman, George Comment Type E	n: "Change the PMA/PMD ws (only Bits, Name, R/W ad" line(s) as appropriate for Note this is quoted from m <i>Response Status</i> C ress same point. Confirm of <i>P</i> 17	type selection rov and, added Desci or values defined l lost recent amend definitions before a <i>L</i> 10 ting, Inc.	w in Table 45–7 to add iption text in row is by this and other ment with PMD name adding.	Comment Type E C IEEE Std 802.3bq-2016 ha In order to be clear, the edit SuggestedRemedy Change "as follows" to "and as follows". Response R ACCEPT. C/ 45 SC 45.2.1.7.5 Anslow, Pete	Comment Status A as inserted a row for 25G liting instruction needs to d before 25GBASE-T (as Response Status C P17 Ciena Comment Status A as inserted a row for 25G liting instruction needs to	account for this. s inserted by IEEE <i>L</i> 40 BASE-T after the account for this.	5 Std 802.3bq-2016) # 33 row for 25GBASE-SR.

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

C/ **45** SC **45.2.1.7.5**

C/ 45 SC 45.2.1.8 P 17 L 53 # 34 Anslow. Pete Ciena	C/ 78 SC 78.1.4 P 19 L 7 # 36 Anslow. Pete Ciena
Comment Type E Comment Status A IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR. In order to be clear, the editing instruction needs to account for this.	Comment Type E Comment Status A IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SI In order to be clear, the editing instruction needs to account for this.
SuggestedRemedy Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016) as follows".	SuggestedRemedy Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016) as follows".
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.
C/ 45 SC 45.2.1.14b P 18 L 26 # 94 Dudek, Mike Cavium	C/ 78 SC 78.1.4 P 19 L 8 # 82 Zimmerman, George CME Consulting, Inc. Employed and the second and
Comment Type T Comment Status A According to the text below the 25GBASE-LR ability should be bit 1.19.5 and the 25GBASE-ER ability should be bit 1.19.6	Comment Type E Comment Status R Footnote b is also inserted, and needs to be added to the editing instruction
-	SuggestedRemedy
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status C	
SuggestedRemedy Make the changes in Table 45-17b.	Change instruction to include "and insert new footnote b" so that it reads: "Insert new row into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status C ACCEPT.	Change instruction to include "and insert new footnote b" so that it reads: "Insert new rows into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown): Response Response Status C
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status C ACCEPT. Comment #35, #94 address same point.	Change instruction to include "and insert new footnote b" so that it reads: "Insert new row into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown): Response Response Status C REJECT.
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status C ACCEPT. Comment #35, #94 address same point. The bits in 45.2.1.14b.aa and 45.2.1.14b.ab have been updated to match Table 45-17b. C/ 45 SC 45.2.1.14b.aa P 18 L 36 # 35	Change instruction to include "and insert new footnote b" so that it reads: "Insert new row into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown): Response Response Status C REJECT. Footnote b already exists in Table 78-1 of IEEE Std 802.3™-2015. 2015. C/ 99 SC P7 L 13 # 51
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status ACCEPT. Comment #35, #94 address same point. The bits in 45.2.1.14b.aa and 45.2.1.14b.ab have been updated to match Table 45-17b. C/ 45 SC 45.2.1.14b.aa P 18 L 36 Anslow, Pete Ciena Comment Type T Comment Status A 25GBASE-ER ability is bit 1.19.7 and 25GBASE-LR ability is bit 1.19.6 SuggestedRemedy In the title and text of 45.2.1.14b.aa change 1.19.6 to 1.19.7 (in 3 places).	Change instruction to include "and insert new footnote b" so that it reads: "Insert new row into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown): Response Response Status C REJECT. Footnote b already exists in Table 78-1 of IEEE Std 802.3™-2015. C/ 99 SC P7 L 13 # 51 Jones, Peter Cisco Comment Type E Comment Status A
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status ACCEPT. Comment #35, #94 address same point. The bits in 45.2.1.14b.aa and 45.2.1.14b.ab have been updated to match Table 45-17b. C/ 45 SC 45.2.1.14b.aa P 18 L 36 Anslow, Pete Ciena Comment Type T Comment Type T Comment Status A 25GBASE-ER ability is bit 1.19.7 and 25GBASE-LR ability is bit 1.19.6 SuggestedRemedy	Change instruction to include "and insert new footnote b" so that it reads: "Insert new rows into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown):
SuggestedRemedy Make the changes in Table 45-17b. Response Response Status C ACCEPT. Comment #35, #94 address same point. The bits in 45.2.1.14b.aa and 45.2.1.14b.ab have been updated to match Table 45-17b. CI 45 SC 45.2.1.14b.aa P 18 L 36 Anslow, Pete Ciena Comment Type T Comment Type T Comment Status A 25GBASE-ER ability is bit 1.19.7 and 25GBASE-LR ability is bit 1.19.6 SuggestedRemedy In the title and text of 45.2.1.14b.aa change 1.19.6 to 1.19.7 (in 3 places). In the title and text of 45.2.1.14b.ab change 1.19.5 to 1.19.6 (in 3 places).	Change instruction to include "and insert new footnote b" so that it reads: "Insert new row into Table 78–1 after 25GBASE-SR (as inserted by IEEE Std 802.3by-2016), and insert new footnote b, as follows (unmodified rows not shown):

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 99

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

 SORT ORDER: Clause, Subclause, page, line
 SC

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C/ 105 SC 105.1.1 Anslow, Pete	P 20 Ciena	L 7	# 37	Cl 105 S Lewis, Jon	SC 105.1.1	<i>P</i> 20 Dell EMC	L 12	# 19
Comment Type E C	Comment Status A			Comment Type	e E	Comment Status A		
The first paragraph of 105.1	.1 has been modified by	IEEE Std 802.3b	oq-2016	On the bot	tom line of th	e paragraph you have 2 spa GBASE-KR-S, and 25GBASE		BASE-SR once the
SuggestedRemedy In the editing instruction cha IEEE Std 802.3by-2016 and In the text, take account of t underline from the final "."	d modified by IEEE Std 8 the addition of ", and 250	302.3bq-2016)"	, , , , , ,	SuggestedRen Remove of Response ACCEPT.	nedy	Response Status C		
Response Re ACCEPT.	esponse Status C			C/ 105 S	C 105.1.3	P 21	<i>L</i> 1	# 38
				Anslow, Pete	103.1.3	Ciena	L I	# 50
C/ 105 SC 105.1.1 Hidaka, Yasuo	P 20 Fujitsu Labora	L 11	# 90	Comment Type	e E	Comment Status A		
	Comment Status A					has inserted a row for 25GE editing instruction needs to a		row for 25GBASE-SF
25GBASE-T has been adde	ed by 802.3bq-2016.			SuggestedRen	nedy			
		nd" before "25GB	ASE-SR" and inserts		s follows" to '	and before 25GBASE-T (as	inserted by IEEI	E Std 802.3bq-2016)
SuggestedRemedy	3bq which strikes out "ar	nd" before "25GB	ASE-SR" and inserts	Change "a	s follows" to '	and before 25GBASE-T (as Response Status C	inserted by IEEI	E Std 802.3bq-2016)
SuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2	3bq which strikes out "ar	nd" before "25GB	ASE-SR" and inserts	Change "a as follows" <i>Response</i> ACCEPT.	s follows" to '	Response Status C		
SuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Re ACCEPT.	3bq which strikes out "ar 5GBASE-SR". esponse Status C			Change "a as follows" Response ACCEPT. Cl 105 S	s follows" to '	Response Status C	inserted by IEEI	E Std 802.3bq-2016) # <u>39</u>
uggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 esponse Re ACCEPT. / 105 SC 105.1.1	3bq which strikes out "ar 5GBASE-SR". esponse Status C P 20	nd" before "25GB.	ASE-SR" and inserts # 75	Change "a as follows" <i>Response</i> ACCEPT. Cl 105 S Anslow, Pete	s follows" to '	Response Status C P 21 Ciena		
uggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Pesponse Re ACCEPT. 1 105 SC 105.1.1 halupsky, David	3bq which strikes out "ar 5GBASE-SR". esponse Status C P 20 Intel			Change "a as follows" Response ACCEPT. Cl 105 S Anslow, Pete Comment Type	s follows" to '	Response Status C P 21 Ciena Comment Status A	L 17	
BuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Re ACCEPT. 21 105 SC 105.1.1 Schalupsky, David Comment Type E C	3bq which strikes out "ar 5GBASE-SR". esponse Status C P 20 Intel Comment Status A	L 12	# 75	Change "a as follows" Response ACCEPT. C/ 105 S Anslow, Pete Comment Type Table 105-	s follows" to '	Response Status C P 21 Ciena	L 17	
SuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Re ACCEPT. C/ 105 SC 105.1.1 Chalupsky, David Comment Type E C since 802.3cc is an amendr 802.3bw™-2015, IEEE Std	3bq which strikes out "at 5GBASE-SR". esponse Status C P 20 Intel Comment Status A nent to IEEE Std 802.3™ 802.3by™-2016, IEEE St	L 12 ^{M-2015} as amend Std 802.3bq ^{™-207}	# 75 led by IEEE Std 16, IEEE Std 802.3bp	Change "a as follows" Response ACCEPT. C/ 105 S Anslow, Pete Comment Type Table 105- SuggestedRen	s follows" to ' C 105.2 E E 2 has been n nedy	Response Status C P 21 Ciena Comment Status A nodified by IEEE Std 802.3bd	L 17 q-2016	# 39
BuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Response ACCEPT. It 105 SC 105.1.1 thalupsky, David Comment Type E Since 802.3cc is an amendr 802.3bw™-2015, IEEE Std ™-2016, IEEE Std 802.3br [™] 2016 you might as well star	3bq which strikes out "at 5GBASE-SR". esponse Status C P 20 Intel Comment Status A ment to IEEE Std 802.3 [™] 802.3by [™] -2016, IEEE Std 802.3 t with the most recent te	L 12 ^{M-2015} as amend Std 802.3bq ^{TM-207} bn ^{TM-2016, and IB}	# <u>75</u> led by IEEE Std 16, IEEE Std 802.3bp EEE Std 802.3b [™] -	Change "a as follows" Response ACCEPT. Cl 105 S Anslow, Pete Comment Type Table 105- SuggestedRen In the editii by IEEE St	s follows" to ' C 105.2 E E 2 has been n nedy ng instruction td 802.3by-20	Response Status C P 21 Ciena Comment Status A	<i>L</i> 17 q-2016 EE Std 802.3by-2 d 802.3bq-2016)	# 39 2016)" to "(as inserted
uggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 besponse Re ACCEPT. 7 105 SC 105.1.1 halupsky, David comment Type E C since 802.3cc is an amendr 802.3bw™-2015, IEEE Std ™-2016, IEEE Std 802.3br ^T 2016 you might as well star 25GBASE-T to this paragra	3bq which strikes out "at 5GBASE-SR". esponse Status C P 20 Intel Comment Status A ment to IEEE Std 802.3 [™] 802.3by [™] -2016, IEEE Std 802.3 t with the most recent te	L 12 ^{M-2015} as amend Std 802.3bq ^{TM-207} bn ^{TM-2016, and IB}	# <u>75</u> led by IEEE Std 16, IEEE Std 802.3bp EEE Std 802.3b [™] -	Change "a as follows" Response ACCEPT. Cl 105 S Anslow, Pete Comment Type Table 105- SuggestedRen In the editii by IEEE St	s follows" to ' C 105.2 E E 2 has been n nedy ng instruction td 802.3by-20	Response Status C P 21 Ciena Comment Status A nodified by IEEE Std 802.3bd o change "(as inserted by IEE 016 and modified by IEEE St	<i>L</i> 17 q-2016 EE Std 802.3by-2 d 802.3bq-2016)	# <u>39</u> 2016)" to "(as inserted
BuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Re ACCEPT. 2/ 105 SC 105.1.1 thalupsky, David Comment Type E Since 802.3cc is an amendr 802.3bw™-2015, IEEE Std ™-2016, IEEE Std 802.3br TM 2016 you might as well star 25GBASE-T to this paragra	3bq which strikes out "at 5GBASE-SR". esponse Status C P 20 Intel Comment Status A ment to IEEE Std 802.3 [™] 802.3by [™] -2016, IEEE Std 802.3 t with the most recent temph.	L 12 ^{M-2015} as amend Std 802.3bq ^{TM-207} bn ^{TM-2016, and IB}	# <u>75</u> led by IEEE Std 16, IEEE Std 802.3bp EEE Std 802.3b [™] -	Change "a as follows" Response ACCEPT. Cl 105 S Anslow, Pete Comment Type Table 105- SuggestedRen In the editii by IEEE St In Table 10	s follows" to ' C 105.2 E E 2 has been n nedy ng instruction td 802.3by-20	Response Status C P 21 Ciena Comment Status A nodified by IEEE Std 802.3bd change "(as inserted by IEE D16 and modified by IEEE St the heading "Clause" to "Cla	<i>L</i> 17 q-2016 EE Std 802.3by-2 d 802.3bq-2016)	# <u>39</u> 2016)" to "(as inserted
CuggestedRemedy Use the original text in 802. ", and 25GBASE-T" after "2 Response Re ACCEPT. C 105 SC 105.1.1 Chalupsky, David Comment Type E C since 802.3cc is an amendr 802.3bw™-2015, IEEE Std ™-2016, IEEE Std 802.3brT 2016 you might as well star 25GBASE-T to this paragra	3bq which strikes out "at 5GBASE-SR". esponse Status C P 20 Intel Comment Status A ment to IEEE Std 802.3 [™] 802.3by [™] -2016, IEEE Std 802.3 t with the most recent temph.	L 12 ^{M-2015} as amend Std 802.3bq ^{TM-207} bn ^{TM-2016, and IB}	# <u>75</u> led by IEEE Std 16, IEEE Std 802.3bp EEE Std 802.3b [™] -	Change "a as follows" Response ACCEPT. Cl 105 S Anslow, Pete Comment Type Table 105- SuggestedRen In the editin by IEEE St In Table 10 Response	s follows" to ' C 105.2 E E 2 has been n nedy ng instruction td 802.3by-20	Response Status C P 21 Ciena Comment Status A nodified by IEEE Std 802.3bd change "(as inserted by IEE D16 and modified by IEEE St the heading "Clause" to "Cla	<i>L</i> 17 q-2016 EE Std 802.3by-2 d 802.3bq-2016)	# <u>39</u> 2016)" to "(as inserted

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/ 105 SC 105.2 Page 6 of 23 2017/01/29 1:33:32

Cl 105 SC 105.3.5 Anslow, Pete	P 22 Ciena	L 5	# 40	C/ 108 SC 108.7.3 P 24 L 13 # 12 Remein, Duane Huawei
Comment Type E "Modify" is not a valid e	Comment Status A editing instruction.			Comment Type E Comment Status A Subclause references should be linked
SuggestedRemedy Change "Modify" to "Cl	nange"			SuggestedRemedy Change "108.5.3.2" to hot link in 3 places (line 13, 15, & 29).
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.
C/ 105 SC 105.5	P 22 Ciena	L 12	# 41	Cl 108 SC 108.7.3 P 24 L 13 # 89 D'Ambrosia, John Futurewei, Subsidiary
Also, the 25GBASE-T includes several other	Comment Status A oq is "25GBASE-T PHY" not ' entry in this table is different f sublayer functions such as P(rom the other PM CS, FEC and PM	MD entries because it	Comment Type E Comment Status R PICS Major Capabilities pouints to subclause 108.5.3.2- but there is no reason or supporting SHALL statement. SuggestedRemedy
to be consistent with p	evious tables the new entries			Delete sub-device action and the LD and ED
CuggestedRemedy Change the editing ins 105-3 (as added by IEI Std 802.3bq-2016) as Response	truction to: "Insert two new ro EE Std 802.3bq-2016) and ab	ws below 25GBA	ASE-SR PMD in Table	Delete subclause reference for -LR and -ER <i>Response Response Status</i> C REJECT. The supporting "shall" statement is in the amendment that will be made by IEEE_Std_802.3cc [™] -201x. See below (D2.0, page 23, line 17).
SuggestedRemedy Change the editing ins 105-3 (as added by IEI Std 802.3bq-2016) as Response ACCEPT.	truction to: "Insert two new ro EE Std 802.3bq-2016) and ab follows:	ws below 25GBA ove 25GBASE-1	ASE-SR PMD in Table T (as inserted by IEEE	Response Response Status C REJECT. The supporting "shall" statement is in the amendment that will be made by IEEE_Std_802.3cc™-201x. See below (D2.0, page 23, line 17). This option shall not be used when the 25GBASE-R RS-FEC sublayer is used to form page 2000 for the statement is used to for the statement is used to
uggestedRemedy Change the editing ins 105-3 (as added by IEI Std 802.3bq-2016) as Response ACCEPT.	truction to: "Insert two new ro EE Std 802.3bq-2016) and ab follows: Response Status C	ws below 25GBA	ASE-SR PMD in Table	Response Response Status C REJECT. The supporting "shall" statement is in the amendment that will be made by IEEE_Std_802.3cc™-201x. See below (D2.0, page 23, line 17).
Change the editing ins 105-3 (as added by IEI Std 802.3bq-2016) as ACCEPT. I 108 SC 108.7.3 nslow, Pete Comment Type E The other PICS items f column and 108.5.3.2	truction to: "Insert two new ro EE Std 802.3bq-2016) and ab follows: <i>Response Status</i> C <i>P</i> 24 <i>Ciena</i> <i>Comment Status</i> A or optional PMD support do r here does not help much.	ws below 25GBA bove 25GBASE-1 L 13 not have entries i	ASE-SR PMD in Table T (as inserted by IEEE # 42	Response Response Status C REJECT. The supporting "shall" statement is in the amendment that will be made by IEEE_Std_802.3cc™-201x. See below (D2.0, page 23, line 17). This option shall not be used when the 25GBASE-R RS-FEC sublayer is used to form pa of a 25GBASE-SR, 25GBASE-LR, or 25GBASE-ER PHY. C/ 108 SC 108.7.4.2 P 24 L 24 # 43
SuggestedRemedy Change the editing ins 105-3 (as added by IEI Std 802.3bq-2016) as Response ACCEPT. C/ 108 SC 108.7.3 Inslow, Pete Comment Type E The other PICS items f column and 108.5.3.2 SuggestedRemedy	truction to: "Insert two new ro EE Std 802.3bq-2016) and ab follows: Response Status C P 24 Ciena Comment Status A or optional PMD support do r	ws below 25GBA bove 25GBASE-1 L 13 not have entries i	ASE-SR PMD in Table T (as inserted by IEEE # 42	Response Response Status C REJECT. The supporting "shall" statement is in the amendment that will be made by IEEE_Std_802.3cc [™] -201x. See below (D2.0, page 23, line 17). This option shall not be used when the 25GBASE-R RS-FEC sublayer is used to form pa of a 25GBASE-SR, 25GBASE-LR, or 25GBASE-ER PHY. C/ 108 SC 108.7.4.2 P 24 L 24 # 43 Anslow, Pete Ciena Comment Type E Comment Status A "Modify" is not a valid editing instruction. H H

C/ 108 SC 108.7.4.2

c. ne (insertion o	f"or LR or ER") # 5	The following s 25GBASE-LR I The current par statement. The Average Li damage thresh receiver (2dBm would need to l of the ER trans	tatement is includ PMD provided tha rameter values in aunch power (max old of the LR rece i), not allowing zei be 4 dB which woi mitter is 3.8dB hig		rements for 25GE Table 114-7 do no nitter is 6 dBm, wh num average rece Actually in this cas	BASE-LR are met. ot support this hich is above the eiver power of the LR se the minimum loss
,	,	The following s 25GBASE-LR I The current par statement. The Average Li damage thresh receiver (2dBm would need to l of the ER trans	tatement is includ PMD provided tha rameter values in aunch power (max old of the LR rece i), not allowing zei be 4 dB which woi mitter is 3.8dB hig	ed: The 25GBASE- t the channel required Tables 114-6 and T x) of the ER transm siver and the maxim ro loss in the link. A	rements for 25GE Table 114-7 do no nitter is 6 dBm, wh num average rece Actually in this cas	BASE-LR are met. ot support this hich is above the eiver power of the LR se the minimum loss
L 30	# 5	statement. The Average L damage thresh receiver (2dBm would need to l of the ER trans	aunch power (max old of the LR rece I), not allowing zer be 4 dB which wor mitter is 3.8dB hig	x) of the ER transm viver and the maxim ro loss in the link. A	hitter is 6 dBm, wh num average rece Actually in this cas	hich is above the eiver power of the LR se the minimum loss
L 30	# [5	damage thresh receiver (2dBm would need to l of the ER trans	old of the LR rece a), not allowing zer be 4 dB which wo mitter is 3.8dB hig	iver and the maxim to loss in the link. A	num average rece Actually in this cas	eiver power of the LR se the minimum loss
L 30	# 5	of the ER trans	mitter is 3.8dB hig	uiu be not acceptar	ne. In a similar w	
					num receive OMA R receiver from a	A of the LR receiver. In LR transmitter is 2
				of the ER receiver.		
		SuggestedRemedy				
-3 to be + inst	ead.	maximum aver performance of Additionally rec	age receive powe the LR receiver. luce the Average	r and Receive powe launch power (max	er (OMA), (Max) t	to match the hax of the ER
S.						
L 33	# 52	Option 2: remo LR PMD provid	ve the statement ' led that the chann	The 25GBASE-ER	PMD interoperate 25GBASE-LR ar	tes with the 25GBASE re met." plus reduce
						1233 - 1323 1111 10
		Response	Respor	nse Status C		
		ACCEPT IN PF	INCIPLE.			
		See response t	o Comment #46.			
				P 25 CME Consult	L 4 ing, Inc.	# 84
		Title of clause	should be "types"	ent Status A 25GBASE-LR and		ince there are 2 types
		, ,				
		Response ACCEPT.	Respor	nse Status C		
	2S. L 33		3 to be + instead.Option 1: significant maximum average reformance of Additionally red transmitter to be trans	F3 to be + instead. Option 1: significantly increase the maximum average receive power performance of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to be below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to the below the maximum average necessary of the LR receiver. Additionally reduce the Average transmitter to the below the maximum average necessary of the LR receiver. Additionally necessary of the CR response to Comment Type the transmitter to the transmitte	Coption 1: significantly increase the values of the ER maximum average receive power and Receive power performance of the LR receiver. Additionally reduce the Average launch power (max transmitter to be below the maximum power values) X3 # 52 L 33 # 52 The first of the 2 required changes may be extremeld deploying APD receivers and therefore the following Option 2: remove the statement "The 25GBASE-ER LR PMD provided that the channel requirements for the center wavelength range for the ER receiver in The 25G - 13100m (as specified for the ER transmitter) Response Response Status Cl 114 SC 114 P 114 SC 114 P 25 Zimmerman, George CME Consult Comment Type E Comment Status A Title of clause should be "types" 25GBASE-LR and not just a single type which is both. SuggestedRemedy Change "type" to "types" Response Status C ACCEPT. ACCEPT.	3 to be + instead. Option 1: significantly increase the values of the ER receiver for Dammaximum average receive power and Receive power (OMA), (Max) to performance of the LR receiver. 3.3 # 52 3.3 # 52 The first of the 2 required changes may be extremely difficult for implication option 2: remove the statement "The 25GBASE-ER PMD interoperate LR PMD provided that the channel requirements for 25GBASE-LR and the centre wavelength range for the ER receiver in Table 114-7 from 1295 - 1310nm (as specified for the ER transmitter) Response Response Status C ACCEPT IN PRINCIPLE. See response to Comment #46. Cl 114 SC 114 P 25 L 4 Zimmerman, George CME Consulting, Inc. Comment Type E Comment Status A Title of clause should be "types" 25GBASE-LR and 25GBASE-ER, si not just a single type which is both. SuggestedRemedy Change "type" to "types" Response Response Status C ACCEPT. Response Status C

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 114	Page 8 of 23
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 114	2017/01/29 1:33:32
SORT ORDER: Clause, Subclause, page, line			

C/ 114 SC 114.1	P 24	L 9	# 102	C/ 114 SC 114.1	P 25	L 49	# 54
hiasi, Ali	Ghiasi Quantu	IM		Trowbridge, Steve	Nokia		
Comment Type TR	Comment Status R			Comment Type E	Comment Status R		
Lack of economically v	iable and more reliable PIN ba	ased solution			ce "Further relevant informatio ventions, references, definitior		
SuggestedRemedy				(Bibliography, refere	nced as [B1], [B2], etc.)." While	e this isn't untrue,	it adds nothing to say
Include PIN lower cost by about 2 dB from tra	 more reliable PIN based recent normitter to the receiver 	eiver, by shifting	the link power budget	it. Most similar claus does.	es do not seem to have a sent	ence like this. 802	2.3by (unnecessarily)
Response	Response Status U			SuggestedRemedy			
REJECT.				Delete the sentence			
This particular comme	nt lacks sufficient detail to be o	considered. How	vever, the same	Response	Response Status C		
subject is addressed ir Comments #57~#62 a	n other comments that have er nd #103~#108).	nough detail to b	e considered (see	REJECT.			
7 114 SC 114.1	P 25	L 35	# 13	Sentence exists in C	L 68, 86, 95, 112, so choose to	o keep based on p	precedent.
Remein, Duane	Huawei	2 33	π 13	C/ 114 SC 114.1	P 37	L 1	# 3
comment Type E	Comment Status R			Ran, Adee	Intel		
	eason clauses are all listed in	ascending orde	r except for CI 78?	Comment Type E	Comment Status A		
uggestedRemedy				0	cntinuity. This should be Table	114–11.	
Move CI 78 to top of ta	ble			SuggestedRemedy			
Response	Response Status C			Renumber.			
REJECT.				Response	Response Status C		
Listing CL78 (Energy E	Efficient Ethernet) last follows t	the convention c	f prior tables (for	ACCEPT.			
	-1 of 100GBASÉ-LR4 / 100GI			C/ 114 SC 114.1	P 37	L 14	# 18
C/ 114 SC 114.1	P 25	L 43	# 44	Remein, Duane	Huawei		
nslow, Pete	Ciena			Comment Type E	Comment Status R		
Comment Type E	Comment Status A				ould be avoided. Here in Table		
The cross reference to	105.2 should be to 105.3				saving acronym you add 1.4.1 simpler just to use the real wo		oothote c to table 114
SuggestedRemedy				SuggestedRemedy			
Change the cross refe				Remove 1.4.178a ar	nd its associated Editing Instruction to "Differential group delay (m		c in Table 114-12.
Response	Response Status C			Response	Response Status C		
ACCEPT.				REJECT.			
				approved by Task Fo	ling a definition for Differential or participants. It is expected ble match existing precedent (to be useful for f	uture clauses. The

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 114	Page 9 of 23
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 114.1	2017/01/29 1:33:32
SORT ORDER: Clause, Subclause, page, line		

ein, Duane Huawei	C/ 114 SC 114.5.1 P 28 L 19 # 21
	Winkel, Ludwig Siemens AG
ment Type TR Comment Status R	Comment Type E Comment Status R
Untestable requirement; "The bit error ratio (BER) shall be less than" (also on line 40).	The text "For clarity, only one" is not appropriate as a key element of a Figure.
Per text5 on pg 27 line 52 there is no requirement that this requirement can tested "TP1 and TP4 are informative reference points (these test points will not typically be	SuggestedRemedy
accessible in an implemented system)." All requirements should be testable, hence this	Move the text below or above the Figure and mark it as a NOTE
should not be a requirement.	Response Response Status C
gestedRemedy Change language to be informative, remove PICS CF3	REJECT.
	The figure follows precedent set by existing clauses (for example, see Figure 88-2).
ponse Response Status U REJECT.	C/ 114 SC 114.5.4 P 29 L 6 # 73
	Dawe, Piers Mellanox
Statement has precedent in 802.3by.	– Comment Type TR Comment Status A
14 SC 114.1.1 P 26 L 36 # 14 ein, Duane Huawei	The transmit disable and signal detect limits should be made more friendly to quad modules with shared lasers, as recently done for 100GBASE-DR.
ment Type TR Comment Status R	SuggestedRemedy
BER Objective is: "Support a BER of better than or equal to 10-12 at the MAC/PLS service	Change the Average launch power of OFF transmitter (max) in Table 114-6 from -25 to
BER Objective is: "Support a BER of better than or equal to 10-12 at the MAC/PLS service nterface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps his is because here you refer to some other point (pre FEC?). <i>gestedRemedy</i> Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than"	Change the Average launch power of OFF transmitter (max) in Table 114-6 from -25 to dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. Response Response Status C ACCEPT.
nterface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps his is because here you refer to some other point (pre FEC?). gestedRemedy Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. <i>Response</i> ACCEPT. C
nterface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). <i>gestedRemedy</i> Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than"	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. <i>Response Response Status</i> C ACCEPT. <i>CI</i> 114 SC 114.5.6 <i>P</i> 29 <i>L</i> 32 # 45
Interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). gestedRemedy Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" ponse Response Status U REJECT. Image: Status Sta	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. Response Response Status C ACCEPT. CI 114 SC 114.5.6 P 29 L 32 # 45 Anslow, Pete Ciena
Interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). gestedRemedy Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" ponse Response Status U	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. <i>Response Response Status</i> C ACCEPT. <i>CI</i> 114 SC 114.5.6 <i>P</i> 29 <i>L</i> 32 # 45
Interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). <i>gestedRemedy</i> Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" <i>Response Status</i> U REJECT. The conditions for the BER requirement for 25GBASE-LR and 25GBASE-ER are described in 114.1.1. The basic requirement is that the frame loss ratio be <6.2E-10 for 64-octet frames with minimum interpacket gap when processed according to Clause 108. Clause	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. <i>Response Response Status</i> C ACCEPT. <i>CI</i> 114 <i>SC</i> 114.5.6 <i>P</i> 29 <i>L</i> 32 <i>#</i> 45 Anslow, Pete Ciena <i>Comment Type</i> E <i>Comment Status</i> A In item a) "in Table 114.6" is a cross-reference to heading 114.6 but it should be a cross reference to Table 114-6.
Interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). <i>gestedRemedy</i> Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" <i>Response Status</i> U REJECT. The conditions for the BER requirement for 25GBASE-LR and 25GBASE-ER are described in 114.1.1. The basic requirement is that the frame loss ratio be <6.2E-10 for 64-octet frames with minimum interpacket gap when processed according to Clause 108. Clause	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to -dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. Response Response Status C ACCEPT. ACCEPT. CI 114 SC 114.5.6 P 29 L 32 # 45 Anslow, Pete Ciena Comment Type E Comment Status A In item a) "in Table 114.6" is a cross-reference to heading 114.6 but it should be a cross reference to Table 114-6. In item b) there is a spurious "the" in strikethrough font.
Interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?). <i>gestedRemedy</i> Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" to "The bit error ratio (BER) measured at the PMD service interface shall be less than" <i>Response Status</i> U REJECT. The conditions for the BER requirement for 25GBASE-LR and 25GBASE-ER are described in 114.1.1. The basic requirement is that the frame loss ratio be <6.2E-10 for 64-octet frames with minimum interpacket gap when processed according to Clause 108. Clause	dBm. Change the Average optical power at TP3 FAIL limit in Table 114-4 for LR from -25 to - dBm. Do not increase the -25 dBm limit for ER receiver because it always sees the sig after a minimum loss. <i>Response Response Status</i> C ACCEPT. <i>CI</i> 114 <i>SC</i> 114.5.6 <i>P</i> 29 <i>L</i> 32 <i>#</i> 45 Anslow, Pete Ciena <i>Comment Type</i> E <i>Comment Status</i> A In item a) "in Table 114.6" is a cross-reference to heading 114.6 but it should be a cross reference to Table 114-6. In item b) there is a spurious "the" in strikethrough font. <i>SuggestedRemedy</i> In item a) change the cross-reference to be to Table 114-6.

<i>Cl</i> 114 <i>SC</i> 114.5.6 Remein, Duane	P 29 Huawei	L 33	# 16	<i>Cl</i> 114 <i>SC</i> 114.6 Maguire, Valerie	<i>P</i> 30 Siemon	L 3	# 91
Comment Type E	Comment Status R				Comment Status A		
	"the" in "b) If a PMD_fault is	detected, then t	he PMD may set the	The Standards references provided in this document	for type B1.1, B3.1, and I and are difficult to locate	in the source 802	
SuggestedRemedy				Also, Table 114-12 specifie	es performance for cablin	g, not fibers.	
Remove the "the" that is	in strike-thru font.			SuggestedRemedy			
Response	Response Status C			Replace the second senter	nce with:		
	d in D2.1 In earlier drafts, "t e two words were unnecess			A 25GBASE-LR or 25GBA cabling according to the sp requirements are satisfied shifted single-mode), type insensitive) fibers.	ecifications defined in Ta by cables containing IEC	ble 114–12. The 60793-2-50 type	fiber optic cable B1.1 (dispersion un
C/ 114 SC 114.5.6	P 29	L 33	# 85	Response F	Response Status C		
Zimmerman, George	CME Consulti	ng, Inc.		ACCEPT IN PRINCIPLE.			
Comment Type E strikeout of "the" shouldr	Comment Status A	nserted clause		The reference to IEC 6079 this sentence. Fibers and f			
SuggestedRemedy delete struck-out "the"				C/ 114 SC 114.6 Ran, Adee	P 30 Intel	L 4	# 2
Pooponoo	Response Status C			Comment Type T "type B1.1, B1.3, or B6_a s	Comment Status A single-mode fibers"		
ACCEPT.							
C/ 114 SC 114.5.6	<i>P</i> 29 Cavium	L 33	# 92	Where are these types def			·
ACCEPT. C/ 114 SC 114.5.6 Dudek, Mike	Cavium	L 33	# 92	In 88.11.1 these types are			·
ACCEPT. Cl 114 SC 114.5.6 Dudek, Mike Comment Type E The "the" has a strike the	-				mentioned with a referen		·
ACCEPT. C/ 114 SC 114.5.6 Dudek, Mike Comment Type E	Cavium Comment Status A			In 88.11.1 these types are SuggestedRemedy Insert "IEC 60793-2-50" be	mentioned with a referen		·

C/ 114 SC 114.6 Dawe, Piers	P 30 Mellanox	L 5	# 70	C/ 114 Dawe, Pier	SC 114.6. 1 rs	P Mella		L 27	# 71
0	Comment Status R ifications defined in Table 114 ole of definitions in the notes	-12" - but Table	114-12 contains many		eads badly: "th	Comment Status e specifications define s aren't defined in the	d in Table		definitions in 114.7",
SuggestedRemedy				Suggestea	Remedy				
Change to "according Table 114-12".	to the specifications given in T	able 114-12" o	simply "according to			et the specifications in imilarly (delete "define			tions in
Response REJECT.	Response Status C			Response ACCE		Response Status	С		
č	ent with existing precedent (fo		,			t with existing precede I" is not needed.	ent of simi	lar clauses (for e	example, see 88.7.1)
C/ 114 SC 114.6	<i>Р</i> 30 Ciena	L 8	# 46	C/ 114	SC 114.6.1	P	30	L 30	# 69
Comment Type TR	Comment Status A			Dawe, Pier	rs	Mella	anox		
This says "The 25GBA that the channel requir However, a 25GBASE requirements for 25GB	SE-ER PMD interoperates wit ements for 25GBASE-LR are -ER transmitter can launch 6 c BASE-LR allow 0 dB loss, so th	met". IBm average po ne 25GBASE-Ll	ower and the channel R receiver could see 6		entence above a spec, not a	Comment Status says these are specifi datasheet.		<i>r</i> hich they are, n	ot characteristics.
dBm average power, w	which is above the 2 dBm aver	age power (ma	k) spec.		-	m "transmit characte	vrietice" to	" transmit spa	cifications" or
SuggestedRemedy						ions at TP2". Similarly			
Either remove the state PMDs will interoperate	ement about interoperation or	modify the spe	cifications so that the	Response		Response Status	С		
Response	Response Status C			REJEC	CT.				
ACCEPT IN PRINCIPL	-			The we	ord choice follo	ows existing precedent	(for exan	nple, see 88.7.1	and Table 88-7).
	#55 (#97 is duplicate of #55), # n 25GBASE-LR and -ER.	66 address the	same topic of						
Follow example of Clar license.	use 87.12 using numbers in ta	mura_02c_3cc	_0117 with editorial						

C/ 114 SC 114.6.1 P 30 L 35 # 22 Winkel, Ludwig Siemens AG	C/ 114 SC 114.6.1 P 30 L 40 # 25 Kimber, Mark Semtech <
Comment Type E Comment Status R Inconsistenbt way to provide additional information to the description of the given values for example "Signaling rate (range) " "Signaling rate (range) " "Side-mode suppression ratio (SMSR), (min)" where in the 2nd occurence a comma is used to separate the text in brackets and others are not using a comma to separate the brackets. SuggestedRemedy Harmonize! My preference is to use a comma. Alternatively consider to use the term in brackets as part of the sentense for example: "Range of signaling rate".	Comment Type T Comment Status D The current maximum average launch power is specified as +6dBm. For low loss fibre this is on the edge of the SBS threshold. Even with a revised minimum fibre loss of 0.356dB/km (ITU document T-REC-G.695-201501-I) the threshold is approximsyrly 6.16dBm. Recommend keeping the maximum power limit >1dB lower than the threshold. SuggestedRemedy Change maximum average Tx launch power to +5dBm Proposed Response Response Status Z REJECT. REJECT. READED
Response Response Status C REJECT. Descriptions in table follow existing precedent of related clauses (for example, see Table 88-7). C/ 114 SC 114.6.1 P 30 L 39 # 23	This comment was WITHDRAWN by the commenter. Maximum Tx launch power for 25GBASE-ER will be revisited during the discussion on Comments #46, #52, #55 (#97), #66 which concern interoperability between -LR and -ER. We may find it difficult to lower if the proposals in Comments #57~#62, #103~#108 are adopted. These propose to shift the budget up by +2.8 dBm to allow PIN receivers.
Winkel, Ludwig Siemens AG Comment Type E Comment Status R The abbreviation min (also in other lines max) is not appropriate. SuggestedRemedy Write the full term instead of abbreviation "minimum" (respectively in other lines "maximum". Image: Comment Status and Comm	Cl 114 SC 114.6.1 P 30 L 42 # 108 Xu, Yu Huawei Technologies Huawei Technologies # 108 Comment Type TR Comment Status R (Only for 25GBASE-ER)To allow lower cost PIN based implementation, the Average launch power (min) need to increase from -3dBm to -0.2dBm (2.8dB increment). SuggestedRemedy
Response Response Status C REJECT. Descriptions in table follow existing precedent of related clauses (for example, see Table	-0.2 Response Response Status U REJECT.

C/ 114 SC 114.6.1 P 30 L 42 # 68 Dawe, Piers Mellanox	C/ 114 SC 114.6.1 P 30 L 42 # 61 Huang, Xi Huawei Technologies Huawei Technologies Huawei Technologies Huawei Technologies
Comment Type TR Comment Status R The minimum average power at ER receiver is not consistent with the minimum average power at ER transmitter and max loss. For LR, the limits could be improved for better network maintenance. Average power max-min spread is 9 dB, much more than the OMA spread and more than is useful. The proposed numbers reduce this to 8.2 dB, so still convenient for high extinction ratio transmitters.	Comment Type TR Comment Status R (Only for 25GBASE-ER)To allow lower cost PIN based implementation, the Average launch power (min) need to increase from -3dBm to -0.2dBm (2.8dB increment). SuggestedRemedy -0.2
SuggestedRemedy Change the minimum average powers:	Response Response Status U REJECT.
LR Tx min from -7 to -6.2 LR Rx min from -13.3 to -12.5 ER Tx from -3 to -2.2 ER Rx from -19.6 to -20.2 In Table 114-6, transmit characteristics, delete note a.	Comments #61 and #108 are identical. Motion #3 to adopt proposal failed to pass: Y:5 N:8 A:4
In Table 114-7, receive characteristics, change note b from: Average receive power (min) is informative and not the principal indicator of signal strength. A received power below this value cannot be compliant; however, a value above this does not ensure compliance. to: Average receive power (min) is not the principal indicator of signal strength. A received power below this value cannot be compliant; however, a value above this does not ensure compliance. Or delete note b.	Cl 114 SC 114.6.1 P 30 L 46 # 103 Xu, Yu Huawei Technologies Comment Type TR Comment Status R (Only for 25GBASE-ER) Based on DML or EML, Tx side has the capability to achieve 2.8dBm in OMA. See our corresponding proposal for clarification SuggestedRemedy
Response Response Status U REJECT.	2.8 Response Response Status U REJECT.
How to relate OMA (min), Pavg (min), ER specs was resolved in a previous comment resolution (follow precedent of CL 88). No consensus to change.	See response to Comment #62.

C/ 114 SC 114.6.1 P 30 L 46 # 62 C/ 114 SC 114.6.1 P 30 L 47 # 57 Huang, Xi Huawei Technologies Huang, Xi Huawei Technologies Comment Status R Comment Type TR Comment Type TR Comment Status R (Only for 25GBASE-ER) Based on DML or EML. Tx side has the capability to achieve (Only for 25GBASE-ER) It is the same reason with Line 46, the OMA min is shifted 2.8dB, 2.8dBm in OMA. See our corresponding proposal for clarification so as OMA min-TDP SuggestedRemedy SuggestedRemedy 2.8 1.8 Response Response Status U Response Response Status C REJECT. REJECT. Comments #62 and #103 are identical. Comments #57 and #104 are identical. Motion #3 to adopt proposal failed to pass: Motion #3 to adopt proposal failed to pass: Y:5 N:8 A:4 Y:5 N:8 A:4 C/ 114 SC 114.6.1 P 30 L 47 # 104 C/ 114 SC 114.6.1 P 31 L 5 # 64 Xu, Yu Huawei Technologies Dawe. Piers Mellanox Comment Type TR Comment Status R Comment Type TR Comment Status R (Only for 25GBASE-ER) It is the same reason with Line 46, the OMA min is shifted 2.8dB. The 25GBASE-ER extinction ratio limit should be relaxed to allow low cost transmitters that so as OMA min-TDP operate over a wide temperature range. 10GBASE-ER has a 3 dB limit with the same receiver reflectance and worse TDP than 25GBASE-ER, so there is room to relax the SugaestedRemedv extinction ratio. The max average and OMA and min IL specs continue to protect the APD. 1.8 SuggestedRemedy Response Response Status U Change 4 dB to 3.5 dB REJECT. Response Response Status U See response to Comment #57. REJECT. Data presented was for 4dB extinction ratio. No consensus for change.

C/ 114 SC 114.6.1 Dawe, Piers	P 31 Mellanox	L 5	# 63	C/ 114 Dawe, Piers	SC 114.6.2	P 32 Mellanox	L 15	# 72
operate over a wide te	Comment Status R inction ratio limit should be rel emperature range. This can be lectance and TDP than 10GB/	e done here bee		+2 so if be use	ceiver damage an ER is accio d it won't be da	Comment Status A limits don't seem very usefu dently connected to 25GBAS maged? If not, can it be rai etting the LR limit at 5.5 not	SE-LR without the sed to +0.5 to with	attenuator that should
Change 3.5 dB to 3 dE	3			Suggested				
Response	Response Status U			For dis	cussion			
REJECT.	,			Response ACCEF	PT IN PRINCIP	Response Status C LE.		
No consensus to char	P 32	L 14	# 47		e threshold for which makes it	25GBASE-LR will be chang +3dBm.	ged from +5.5dBm	to +1dB over Pavg
Anslow, Pete	Ciena			C/ 114	SC 114.6.2	P 32	L 16	# 97
Comment Type T	Comment Status A			Dudek, Mik	e	Cavium		
of 2 dBm, but is not er transmitter which coul SuggestedRemedy	d for 25GBASE-LR is a long wa hough to protect against accide d emit 6 dBm average power.	ental connectio	n with a 25GBĂSĖ-ER	specific must b	114.6 says th ations. The Ll assumed tha	Comment Status A at the ER and LR will interop R specifications do not inclu t the minimum attenuation is	de a minimum atte 0dB. The Receiv	enuation, therefore it vers must therefore not
connection with a 25G			0	Suggestedl	•	est OMA and average powe		ER provides.
Response ACCEPT IN PRINCIP	Response Status CLE.			power	(max) to 6dBm	hreshold to 7dBm for both L for both LR and ER. Chan I ER. Add afootnote to thes	ge the Receive po	wer (OMA) Max to
Damage threshold for (max), which makes it	25GBASE-LR will be changed +3dBm.	I trom +5.5dBm	to +1dB over Pavg	Response ACCEF	YT IN PRINCIP	Response Status C LE.		

See response to Comment #46.

C/ 114 SC 114.6.2	P 32	L 16	# 55	C/ 114	SC 114.6.2	P 3	2	L 18	# 105
Dudek, Mike	Cavium			Xu, Yu		Huaw	ei Techno	ologies	
Comment Type TR Comm	ment Status A			Comment	Type TR	Comment Status	R		
Section 114.6 says that the ER specifications. The LR specifica must be assumed that the minin	ations do not include num attenuation is (a minimum atter dB. The Receive	nuation, therefore it ers must therefore not	Page		R), we change the av 3 link power budget, th			
overload with the highest OMA	and average power	that either LR or I	ER provides.	Suggested	Remedy				
SuggestedRemedy				-16.8					
Change the damage threshold t power (max) to 6dBm for both L 6dBm for both LR and ER. Add 88-8	R and ER. Change	e the Receive pov	ver (OMA) Max to	Response REJE		Response Status	U		
	onse Status C			See re	esponse to Com	ment #58.			
ACCEPT IN PRINCIPLE.				C/ 114	SC 114.6.2	P 3	2	L 18	# 93
				Dudek, Mi	ke	Caviu	m		
See response to Comment #46.	•			Comment	Type E	Comment Status	А		
C/ 114 SC 114.6.2 Anslow, Pete	P 32 Ciena	L 18	# 48		verage receive p e attenuation is	ower (min) for ER is v 18dB.	vrong. Th	ne min Average	Tx power is -3dBm
Comment Type TR Comm	ment Status A			Suggested	Remedy				
The average receive power (mir				Chang	ge -19.6 to -21.				
launch power (min) is -3 dBm ar be -21 dBm.	nd the channel inser	rtion loss (max) is	18 dB, so this should	Response		Response Status	С		
SuggestedRemedy				ACCE	PT.				
Change the average receive po	wer (min) for 25GB	ASE-ER to -21 dB	m	Comm	ents #48 #56 #	#93 address same poi	nt		
o o 1	onse Status C								
ACCEPT.				C/ 114 Huang, Xi	SC 114.6.2	P 3.	2 ei Techno	L 18	# 58
				0	T			Jiogles	
Comments #48, #56, #93 addre	ess same point.			Page	for 25GBASE-EI	Comment Status R), we change the av B link power budget, th	erage pov		
				Suggested	Remedy				
				-16.8					
				Response		Response Status	U		
				REJE	CT.	, , , , , , , , , , , , , , , , , , ,	-		
				Comm	nents #58 and #1	05 are identical.			
					n #3 to adopt pro :8 A:4	posal failed to pass:			
TYPE: TR/technical required ER/ed COMMENT STATUS: D/dispatched SORT ORDER: Clause, Subclause,	A/accepted R/reje		-	5	U/unsatisfied Z	/withdrawn	C/ 114 SC 114		Page 17 of 23 2017/01/29 1:33:

7 114 SC 114.6.2	P 32	L 19	# 56	C/ 114	SC 114.6.2	P 32	L 24	# 59
amura, Kohichi	Oclaro			Huang, Xi		Huawei 1	Fechnologies	
Comment Type TR	Comment Status A			Comment T	ype TR	Comment Status R		
	r (min)" is -19.6dBm, but it sh ·3dBm and "Channel loss" is		because "Average			R),To allow lower cost pi ts the 2.8 dB of OMA fror		
uggestedRemedy		TOUD.		support	s all 4 combina	ation of the device type, i.	e., EML/DML+PIN a	and EML/DML+APD. V
	ve power (min)" to -21dBm.				eceiver sensitiv al for clarificatio	rity (OMA), (max) of -16.2 on.	dBm is reasonable.	. See our correspondir
lesponse	Response Status C			Suggested	Remedy			
ACCEPT.				-16.2				
Comments #48, #56, #9	93 address same point.			Response		Response Status U		
# 114 SC 114.6.2	P 32	L 24	# 106	REJEC	Т.			
u, Yu	Huawei Techr		# 100	Comme	ents #59 and #7	106 are identical.		
Comment Type TR Comment Status R (Only for 25GBASE-ER),To allow lower cost pin based implementation for 25G SMF								
(Only for 25GBASE-ER),To allow lower cost pin bas			Motion Y:5 N:8		pposal failed to pass:		
(Only for 25GBASE-ER 40Km, link budget shifts),To allow lower cost pin bas s the 2.8 dB of OMA from the	receiver to the t	transmitter. Thus,			oposal failed to pass: P 32	L 26	# 60
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit),To allow lower cost pin bas s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8	3 A:4	P 32	L 26 Fechnologies	# 60
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification),To allow lower cost pin bas s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 C/ 114	3 A:4 SC 114.6.2	P 32		# 60
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy),To allow lower cost pin bas s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo	3 A:4 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2	P 32 Huawei T <i>Comment Status</i> R R),In D2.0, the gap betwe	Fechnologies	tivity (OMA), (max) and
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2),To allow lower cost pin bas s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm 1.	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse	3 A:4 SC 114.6.2 SC 114.6.2 Type TR or 25GBASE-El d receiver sense	P 32 Huawei T Comment Status R	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) and ame value to shift the
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2 esponse),To allow lower cost pin bas s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse	SC 114.6.2 SC 114.6.2 SC 114.6.2 TR TR TR SC 114.6.2 TR SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2	P 32 Huawei T <i>Comment Status</i> R),In D2.0, the gap betwo sitivity (OMA), (max) is 2.	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) an ame value to shift the
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2 esponse REJECT.),To allow lower cost pin bass s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm n. <i>Response Status</i> U	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse Stresse	SC 114.6.2 SC 114.6.2 SC 114.6.2 TR TR TR SC 114.6.2 TR SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2	P 32 Huawei T <i>Comment Status</i> R),In D2.0, the gap betwo sitivity (OMA), (max) is 2.	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) and ame value to shift the
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2 esponse),To allow lower cost pin bass s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm n. <i>Response Status</i> U	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse Stresse Suggestedf	SC 114.6.2 SC 114.6.2 SC 114.6.2 TR TR TR SC 114.6.2 TR SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2 SC 114.6.2	P 32 Huawei T <i>Comment Status</i> R),In D2.0, the gap betwo sitivity (OMA), (max) is 2.	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) and ame value to shift the
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2 response REJECT.),To allow lower cost pin bass s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm n. <i>Response Status</i> U	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse Stresse SuggestedF -13.7	SC 114.6.2 SC 114.6.2 SC 114.6.2 Type TR or 25GBASE-El ad receiver sense receiver sense Remedy	P 32 Huawei I Comment Status R R),In D2.0, the gap betwo sitivity (OMA), (max) is 2. sitivity (OMA), (max) from	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) and ame value to shift the
(Only for 25GBASE-ER 40Km, link budget shifts supports all 4 combinati think Receiver sensitivit proposal for clarification uggestedRemedy -16.2 esponse REJECT.),To allow lower cost pin bass s the 2.8 dB of OMA from the ion of the device type, i.e., El ty (OMA), (max) of -16.2dBm n. <i>Response Status</i> U	receiver to the t ML/DML+PIN an	transmitter. Thus, nd EML/DML+APD. We	Y:5 N:8 Cl 114 Huang, Xi Comment T (Only fo Stresse Stresse Suggestedf -13.7 Response REJEC	3 A:4 SC 114.6.2 SC 114.6.2 Tr 25GBASE-El d receiver sen: d receiver sen: Remedy T.	P 32 Huawei T Comment Status R R),In D2.0, the gap betwo sitivity (OMA), (max) is 2. sitivity (OMA), (max) from	Fechnologies een Receiver sensit 5dB. We use the sa	tivity (OMA), (max) and ame value to shift the

C/ 114 SC 114	.6.2 P 32	L 26	# 107	C/ 114	SC 114.6.2	P 32	L 29	# 65
Xu, Yu	Huawei Tech	nologies		Dawe, Piers		Mellanox		
Comment Type T	R Comment Status R			Comment T	ype TR	Comment Status A		
Stressed receive Stressed receive SuggestedRemedy	SE-ER),In D2.0, the gap between sensitivity (OMA), (max) is 2.5dE sensitivity (OMA), (max) from -16	. We use the sa	me value to shift the	not a ve we have	ry accurate w a parameter s, more consis	enalty as defined by 87.8.11 (1 ay of calibrating a stressed eye that aligns more closely to TDF stent over a range of stressed e	e for a PMD that P with FEC (righ	uses FEC. Now that timing offset, right
-13.7				SuggestedF	Remedy			
Response REJECT. See response to	Response Status U Comment #60.			Modify f 95.8.8.2 (SEC)".	ootnote e. Cl . In 114.7.10 Add a senter	vertical eye closure penalty to 2 hange the VECP entry in Table , change "vertical eye closure p ince after the list to say that 2.5	114-9 to an SE benalty" to "stres dB SEC and 1.9	C entry, referring to sed eye closure dB VECP represent
C/ 114 SC 114	.6.2 P 32	L 26	# 49			eyes. This will also make the but the text the but the but the text text and the te	udget and spec	
Anslow, Pete	Ciena			Response		Response Status C		
Comment Type T	Comment Status A			ACCEP	T IN PRINCIF	LE.		
penalty is 1.9 dB.	R the receiver sensitivity (OMA) is This means that the stressed rea R the receiver sensitivity (OMA) is	ceiver sensitivity	should be -9.4 dBm.			#98 refer to SRS.		
	This means that the stressed red				ge VECP to S alue of SEC to	EC in Table 114-7.		
SuggestedRemedy						7.10 to reference Clause 95.8.	8 with exception	n of position of
	R change the stressed receiver se R change the stressed receiver se			histogra		be at 0.45 UI and 0.55 UI to m		
Response	Response Status C			4. Char	nge SRS eye	mask in Table 114-7 to Tx eye	mask in Table 1	14-6.

ACCEPT IN PRINCIPLE.

See response to Comment #65.

C/ 114 SC 114.6.2 P 32 L 30 # 98	C/ 114 SC 114.6.3 P 33 L 9 # 66				
Dudek, Mike Cavium	Dawe, Piers Mellanox				
Comment Type TR Comment Status A The conditions for the stressed receiver sensitivity do not appear to be stringent enough. They should be equivalent to what is seen with the max TDP (2.7dB) Comparing to 100GBASE-LR4 the vertical eye closure penalty is only 0.1dB larger, the J2 is 0.03UI smaller and the J4 jitter is significantly smaller than the J9 jitter for 100GBASE-LR4. evem though the TDP for 100GBASE-LR4 is only 2dB. The mask is also significantly tighter	Comment Type TR Comment Status A 114.6 says that the 25GBASE-ER PMD interoperates with the 25GBASE-LR PMD provided that the channel requirements for 25GBASE-LR are met. However this isn't the case; we need to control the minimum attenuation, and the maximum attenuation can be higher than for LR. This reemedy assumes the same attenuation is used in both directions for convenience and avoiding misconfiguration.				
than that allowed for the Tx, even though this is equivalent to the output of the fiber not the input.	SuggestedRemedy				
SuggestedRemedy Change the vertical eye closure penalty to 2.7dB and the SRS eye mask to match the Tx output values. Response Response Status C ACCEPT IN PRINCIPLE.	Either remove the claim for interoperation in 114.6, or: Add columns to Table 114-8, illustrative link power budgets: LR to ER and ER to LR, max loss 6.3, min loss 6.2, additional loss allowed 4 dB. See another comment to make this comprehensible (would have max loss 10.3, min loss 4, no additional IL row). These numbers are consistent with proposed new minimum power limits (see another comment). If the overload limits are changed without adding cost, the minimum loss wou change.				
See response to Comment #65.	Response Response Status C				
Cl 114 SC 114.6.3 P 33 L 1 # 86 Cimmerman, George CME Consulting, Inc. Comment Type TR Comment Status R	ACCEPT IN PRINCIPLE. See response to Comment #46.				
Does "illustrative" mean the same thing as informative? If so, please mark this section informative so it is not confused with a requirement					
SuggestedRemedy Add "(informative) to the title of 114.6.3 and table 114-8					
Response Response Status U REJECT.					

The use of the word "illustrative" follows precedent set by similar clauses (for example, see 88.7.3). It is not a requirement, and has a similar meaning as "informative". Since this has not caused confusion in the past, it is better to maintain consistency by leaving it as it is.

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/ 114 SC 114.6.3 Dawe, Piers	P 33 Mellanox	L 9	# 67	C/ 114 Zimmerma	SC 114.7.3 an, George	P 3: CME (<i>L</i> 51 <i>L</i> 51 Consulting, Inc.	# 88
Comment Type T	Comment Status A			Comment	· ·	Comment Status		
	o be any distinction between "i	nsertion loss" an	d "additional insertion		51			t appears to be undefined.
loss allowed", and I th	nink of the attenuator for a very			Suggested	0		· · · · · ,	
	ocates it to "channel".			00		optical power shall be	within the limits give	en in Table 114–6 if
	insertion loss (max) for 30 km			measi	ured using the m	ethods given in IEC 6	1280-1-1." to ""Wher	measured according to ts given in Table 114–6."
If desired, add note to achieved by using an	o the 10 for Channel insertion le	oss (min) saying	that this may be	Response		Response Status	U	
	l insertion loss allowed" row.			REJE	СТ.			
Response	Response Status C				foronoo io to mo	thada far maaauriag a	verege entirel news	r Thoro io no roquiromont
ACCEPT.				on me		nods other than those		r . There is no requirement must produce an
power budgets. Table	s a similar form to Table 88-9 (88-9 has 15 dB for "Channel oss allowed", so this part of Ta	insertion loss (ma	ax)" and 3dB for	The w	ording matches	hat of similar clauses	in existing standards	s (for example, see 88.8.3).
Additional insertion i	uss anowed, so this part of Ta		Stay the Same.	C/ 114	SC 114.7.5.4	P 3	5 L 22	# 17
	ow for "Channel insertion loss		not appear in Table 88-	Remein, D	Juane	Huaw	ei	
9. The following footr	note will be added to clarify use	or attenuator:		Comment	Type E	Comment Status	R	
	ble 114-8 and Table 114-12:			It wou	ld be a kindness	to the reader to inform	n him/her what is bei	ng tested here.
"Channel insertion lo	ss (min) may be implemented v	with an attenuato	r."	Suggested	dRemedv			
C/ 114 SC 114.7.2	P 33	L 46	# 87	•••	•	om "Test procedure" to	o "TDP test procedur	e"
Zimmerman, George	CME Consult	ing, Inc.		Response	-	Response Status	c	
Comment Type TR	Comment Status R			REJE		nooponee etatue	0	
	t measured per TIA/EIA-455-12				- 			
	ean to specify that the waveler identical, or are they interchan			Sectio	on title matches t	nat of existing precede	ent in similar clauses	(see 88.8.5.4).
you mean, so my rem		igeable. Note, m	Thot entirely sure what	C/ 114	SC 114.7.5.4	P 3	5 L 24	# 95
SuggestedRemedy				Dudek, Mil	ke	Caviu	m	
Change "The wavele TIA/EIA-455-127-A o	ngth shall be within the ranges r IEC 61280-1-3." to ""When m	easured accordir	ng to TIA/EIA-455-127-	Comment Clause	51	Comment Status res a BER of 1e-12.		5e-5 BER
	the wavelength shall be within	the ranges given	in Table 114–6."	Suggested	dRemedv			
Response	Response Status U			00	-	ER shall be 5e-5.		
REJECT.				Response	•	Response Status	c	
	xamples of methods for measu nethod, but, if methods other th nt result.			ACCE		Response otatus	C	
The wording matches	s that of similar clauses in exist	ing standards (fo	r example, see 88.8.2).					
	red ER/editorial required GR/ dispatched A/accepted R/reje						C/ 114 SC 114.7.5.4	Page 21 of 23

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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C/ 114 SC 114.8 P 36 L 30 # 4 Slavick, Jeff Broadcom Limited	C/ 114 SC 114.10 P 37 L 13 # 26 Anslow, Pete Ciena
Comment Type TR Comment Status R Have a shall statement but no matching PICS	Comment Type E Comment Status A Minus signs should be en-dash
SuggestedRemedy Add COM10 for subclause 114.8	SuggestedRemedy Change the three minus signs in Table 114-12 to be en-dash (Ctrl-q Shft-p)
Response Response Status U REJECT.	Response Response Status C ACCEPT.
114.11.4.6 is the matching PICS for 114.8. 114.8 references 112.8, and the subclauses from 112.8 are directly referenced in the table.	C/ 114 SC 114.11.2.1 P 38 L 37 # 24 Winkel, Ludwig Siemens AG
CI 114 SC 114.9 P 36 L 35 # 50 Anslow, Pete Ciena Comment Type E Comment Status A	Comment Type ER Comment Status R Note shall not provide provisions and requirements. Note shall only provide statements of facts.
"100GBASE-LR and 100GBASE-ER" should be "100GBASE-LR4 and 100GBASE-ER4"	SuggestedRemedy Reformat the note to a text.
SuaaestedRemedv	
SuggestedRemedy Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4" Response Response Status C	Response Response Status U REJECT.
Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4"	Response Response Status U
Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4" Response Response Status C ACCEPT. C/ 114 SC 114.10 P 36 L 41 # 96 Dudek, Mike Cavium	Response Response Status U REJECT. Wording matches precedent set by related standards (see Clause 112.11.2.1 from
Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4" Response Response Status CL ACCEPT. CL 114 SC 114.10 P 36 L 41 # 96 Dudek, Mike Cavium Comment Type T Comment Status A The reference to 88.11 then points to table 88-14. Table 114-12 is needed instead.	Response Response Status U REJECT. Wording matches precedent set by related standards (see Clause 112.11.2.1 from P802.3by). C/ 114 SC 114.11.4.1 P 40 L 7 # 27
Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4" Response Response Status C ACCEPT. C/ 114 SC 114.10 P 36 L 41 # 96 Dudek, Mike Cavium Comment Type T Comment Status A	Response Response Status U REJECT. Wording matches precedent set by related standards (see Clause 112.11.2.1 from P802.3by). C/ 114 SC 114.11.4.1 P 40 L 7 # 27 Anslow, Pete Ciena Comment Type E Comment Status A

C/ 114 SC 114.11.4.1

C/ 114 Slavick, Jet	SC 114.11.4.6	P 4 Broad	2 Icom Limited	L 30	# 6	
Comment T Status	51	<i>Comment Status</i> doesn't appear to b		ified		
Suggested Make it	<i>Remedy</i> t center justified					
Response ACCEF	PT.	Response Status	С			

C/ 114 SC 114.11.4.6 Page 23 of 23 2017/01/29 1:33:33