C/ 01 SC 1.5	P 23	L <b>3</b>	# <u>r</u> 01-1	C/ 00 SC 0		Р	L	# <u>r01-4</u>
Inslow, Peter	Ciena Corporati	on		Anslow, Peter		Ciena Corporatio	'n	
Comment Type E	Comment Status D		Bucket	Comment Type	E	Comment Status D		Buci
Since no new abbrevia Editor's note can be re	ations have been introduced to 1	1.5, the editing	instruction and			ables in the draft where change able 45-3). This can cause son		
SuggestedRemedy	eniovea.					publication process for IEEE S		
Remove:				add "(unchange	ed rows r	not shown)" to the editing instrue	ction in these	cases.
	w abbreviations into the list, in a			SuggestedRemedy				
[Editor's note (to be re here.]	moved prior to publication) - any	/ new abbrevia	ations to be added	unchanged row	s in the l	ables are modified or new rows base table, add "(unchanged ro		
Proposed Response	Response Status W			instruction with		license.		
PROPOSED ACCEPT	Г.			Proposed Response		Response Status W		
C/01 SC 1.5	P 23	L 9	# r01-2	PROPOSED AG	CCEPT.			
Anslow, Peter	Ciena Corporati	•	<i>#</i> 101-2	C/ 01 SC 1.	3	P <b>22</b>	L <b>26</b>	# <u>r01-5</u>
Comment Type E	Comment Status D		Bucket	Anslow, Peter		Ciena Corporatio	'n	
	pansion of CAUI-n is not shown	properly.		51	E	Comment Status D		
SuggestedRemedy						n "approved for publication" by I 80 September 2014. Conseque		
Show "over n lanes" ir	n underline font			removed.				
Proposed Response	Response Status W			SuggestedRemedy				
PROPOSED ACCEPT	Г.			Remove the ed	itor's not	e: IEC 61754-7-1 is currently in . The connector types reference	IEC approva	I process, expected
C/00 SC 0	Р	L	# r01-3	IEC 61754-7	usi 2014	. The connector types reference	eu nere are c	urrentity described in
nslow, Peter	Ciena Corporati	ion		Proposed Response	е	Response Status W		
Comment Type E	Comment Status D		Bucket	PROPOSED A	CCEPT.			
Now that IEEE Std 80 201x" can be changed	2.3bj-2014 has been approved b d to "802.3bj-2014"	by the standard	ds board, "802.3bj-					
SuggestedRemedy								
Also, change the base	x" to "802.3bj-2014" throughout t e text of the draft in line with any cation process. (including the su	changes in IE						
Proposed Response	Response Status W							
PROPOSED ACCEPT	Г.							

C/         45         SC         45.2.1.92b.3         P 37         L 11         # r01-6           RAN, ADEE         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation	C/ 95 SC 95.8.8.2 P 123 L 45 # r01-8
Comment Type E Comment Status D The text description in 45.2.1.92b.2 uses the term "weight" while the table uses the term	Comment Type <b>T</b> Comment Status <b>D</b> The MMF ad hoc agreed that TxVEC should be the main metric of the stressed receiver
<ul> <li>"ratio". It would be less confusing to use one term consistently.</li> <li>During the July meeting there was an objection to using the word "weight" since "tap weight" can be interpreted as the coefficient value, which may not be the same as the ratio defined in Table 83D-3.</li> <li>However, the term "tap weight" is used in only one other place in the standard (Clause 68), and there, an FIR filter is defined with a set of coefficients which sum to unity - so the coefficients and tap weights are the same.</li> <li>On the other hand, the term "coefficient" is used in numerous places in the base standard when the sum of coefficients is not unity.</li> <li>Therefore, using the term "weight" here is consistent with its meaning in the base standard.</li> <li>Comment applies to similar occurrences in table 45-71b and table 45-71c.</li> </ul>	Interview       and cagreed that TXVEC should be the main method of the stressed receiver conformance test signal, not VEC.         SuggestedRemedy       In 95.8.8.2: Delete the sixth indented paragraph and modify the fifth indented paragraph describing the iteration of adjustable features, to be consistent with using TxVEC target value as the main metric of the stressed receiver conformance signal, and make other changes in section 95.8.8.2 needed for consistency, as shown in king_02_0814_optx         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       This was discussed in the MMF ad hoc, as documented in http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf         See response to comment r01-17       C/ 95       SC 95.8.8.2       P 122       L 44       # [r01-9]
SuggestedRemedy Change "ratio" to "weight" throughout tables 45-71b and 45-71c. Proposed Response Response Status W PROPOSED ACCEPT. See also comment r01-11	King, Jonathan         Comment Type       T         Comment Status       D         The fraction of TxVEC of the stressed conformance signal that must be produced using low pass filtering is too high.
C/ 95 SC 95.8.5.2 P 119 L 12 # r01-7	SuggestedRemedy Change " greater than two thirds of the dB value of" to " greater than half of the dB value of"
King, Jonathan Comment Type T Comment Status D For consistency use the phrase 'histogram window"	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See response to comment r01-28
SuggestedRemedy change "outer boundary of the histogram" to "outer boundary of the histogram window"	
Proposed Response Response Status W PROPOSED ACCEPT.	
(This was discussed in the MMF ad hoc as documented in http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf)	

C/ 83D         SC 83D.1         P 159         L 23         # r01-10           RAN, ADEE         Intel Corporation	C/         83D         SC         83D.3.1.1         P 162         L 27         # r01-11           RAN, ADEE         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation						
Comment Type T       Comment Status D         "Actual channel loss could be higher or lower than Equation (83D-1)"         Comparing "loss" and "equation" as done here is somewhat unusual, especially when the equation is an inequality.         In addition, "channel loss" isn't defined anywhere. the equation refers to insertion loss, which is distinct from ILD, RL, and crosstalk.         SuggestedRemedy         Change "Actual channel loss could be higher or lower than Equation (83D-1) due to the channel ILD, return loss, and crosstalk"         to "Equation (83D-1) defines the recommended channel insertion loss limit and Figure 83D-3 shows the recommended insertion loss region. Actual channel quality and compliance are also affected by ILD, return loss, and crosstalk".         Proposed Response       Response Status W         PROPOSED ACCEPT IN PRINCIPLE.         Equation (83D-1) and Figure 83D-2 are already referred to earlier in this subclause with: "Figure 83D-3 summarizes the informative differential insertion loss budget associated with the chip-to-chip application."         Change:         "Actual channel loss could be higher or lower than Equation (83D-1)" to: "Actual channel loss could be higher or lower than that given by Equation (83D-1)" to:	Comment Type       T       Comment Status       D         The headings of the second column in tables 83D-2 and 83D-3 are the definitions of the specified values. It would be helpful if these definitions be placed in the text and given names ("weight") which can then be used in the specification and referred to in Clause 45         SuggestedRemedy       In the paragraph preceding these tables (page 160 line 38), change         "The variable Local_eq_cm1 controls the weight of the pre-cursor tap c(-1). The valid values of Local_eq_cm1 and their effect are specified in Table 83D-2. The variable Local_eq_c1 controls the weight of the post-cursor tap c(1). The valid values of Local_eq_c1 and their effect are specified in Table 83D-3."         to       "The variable Local_eq_cm1 controls the the weight of the pre-cursor tap c(-1), defined a c(-1)/( c(-1) + c(0) + c(1) ). The valid values of Local_eq_cc1 controls the the weight of the post-cursor tap c(1), defined as c(1)/( c(-1) + c(0) + c(1) ). The valid values of Local_eq_c1 and the corresponding tap weight values are specified in Table 83D-2. The variable Local_eq_c1 and the corresponding tap weight values are specified in Table 83D-2. The variable Local_eq_c1 and the corresponding tap weight values are specified in Table 83D-2. The variable Local_eq_c1 and the corresponding tap weight values are specified in Table 83D-3."         Change the column headings in tables 83D-2 and 83D-3 to "weight of c(-1)" and "weight of c(1)" respectively.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       Apply the suggested remedy except that for the column heading in Table 83D-2 add "c(1) weight" to the existing heading enclosed in brackets.						
	Cl 83D       SC 83D.3.3.1       P 163       L 14       # r01-12         RAN, ADEE       Intel Corporation       Intel Corporation         Comment Type       T       Comment Status       D         Now that we have a target column for calibrated values, Applied sinusoidal jitter should be defined as target, rather than minimum.       SuggestedRemedy         Move "Table 88-13" from "min" column to "target" column, in both tests.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPIE       F       F						

PROPOSED ACCEPT IN PRINCIPLE. See comment r01-16

C/         83E         SC         83E.3.1.6         P 177         L 11         # r01-13           RAN, ADEE         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation	C/         95         SC         95.9.2         P 125         L 13         # r01-14           Anslow, Peter         Ciena Corporation         Ciena Corporation         Ciena Corporation         Ciena Corporation				
Comment Type       T       Comment Status       D         The way the variable Recommended_CTLE_value is described here is confusing; it is not clear which sublayer or entity this variable belongs to.       In the context of host output eye measurement, it seems to belong to the "host" side of the C2M link, since there is no module in this test. But in the context of the Module stressed	Comment Type       T       Comment Status       D         There is a discrepancy between 95.9.2 and PICS item CES2 as to what the Hazard Level should be.       95.9.2 says Hazard Level 1M while CES2 says Hazard Level 1.         During discussion of this in the MMF Ad Hoc call of 21 August 2014, evidence was shown that 100GBASE-SR4 as per D3.1 can be very close to the upper power limit for Hazard				
input test (83E.3.4.1.1), it seems to exist in the module, since there is no host in that test. But there is only one variable, and it is not described how its value is shared between the chip to the module. This question is also relevant for MDIO addressing. Consider two cases: a) both chip and	level 1 defined by IEC 60825-2 2007 prior to any fault conditions existing. See presentation linked to from http://www.ieee802.org/3/bm/public/mmfadhoc/meetings/index.html Despite a new version of IEC 60825-1 having been issued in 2014 which may allow higher powers in general, for "optical fibre communication systems" this refers to IEC 60825-2				
module implement MDIO; b) the chip implements MDIO while the module does not. In case a, register 1.169 in the module affects the module receiver, while at the chip side, this address has no effect; in the second case, one could expect that writing the register at the chip side would somehow relay the information to the module (based on the current text in 83E.3.1.6 which mentions this register). It is more reasonable to define the variable as belonging to the receiver in the module. The	SuggestedRemedy         Make no change to 95.9.2 since this refers to "Hazard Level 1M laser requirements as defined in IEC 60825-1 and IEC 60825-2"         In 95.12.4.5, item CES2 change "Laser safetyIEC Hazard Level 1" to "Laser safetyIEC Hazard Level 1M" and change "Conforms to Hazard Level 1 laser requirements" to "Conforms to Hazard Level 1M laser requirements"         Proposed Response       Response Status       W         PROPOSED ACCEPT.       See also comment r01-41				
host output eye definition should be rephrased to avoid confusion - especially, remove the reference to the MDIO register, which is irrelevant in this case. SuggestedRemedy					
Change "The recommended CTLE peaking value (which is also used for host output eye measurements) is provided to the module via the variable Recommended_CTLE_value. If a Clause 45 MDIO is implemented, this variable is accessible through register 1.169 (see 45.2.1.92a)."					
to "The reference CTLE setting used for the host output eye measurements is the same setting which the host provides to the module via the variable Recommended_CTLE_value."					

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE. See comment r01-21

Response Status W

C/ 83E SC 83E.4.1.1 P 186 L 44 # r01-15	CI 83D SC 83D			# r01-16
RAN, ADEE Intel Corporation	Dudek, Michael	QLog	ic Corporation	
Comment Type E Comment Status D	Comment Type TF	Comment Status	D	
Two or three settings? The text explicitly says three settings, but two of them are conditional, so in some cases only two are used. A similar problem exists in item 2 of the list in 83E.4.2, for the host compliance.	Sinusoidal jitter is amount of this typ	e maximum Applied sinuse generally more stressful t e of jitter unconstrained w sinusoidal jitter than a cor sults from the test	han random jitter and hav ill enable the stressed ge	ving the maximum merator to have
Rephrasing can clarify this paragraph.	SuggestedRemedy			
SuggestedRemedy		-13 reference from the Mi	n column to the Target co	olumn for both Test's 1
In the penultimate paragraph of 83E.3.4.1.1 (Module stressed input test procedure), change:	and 2.			
"The module under test shall meet the BER requirement as described in 83E.1.1 using three Recommended_CTLE_value values for both the high loss test and low loss test."	Proposed Response PROPOSED ACC See also commer		W	
to "The module under test shall most the PEP requirement as described in 82E 1.1, in both	C/ 95 SC 95.8	.8.2 <i>P</i> 1	23 L 50	# r01-17
"The module under test shall meet the BER requirement as described in 83E.1.1, in both the high loss test and low loss test, using multiple Recommended_CTLE_value settings	Dudek, Michael		ic Corporation	
provided in each test."	Comment Type TF	-		
In the same paragraph, since Recommended_CTLE_value is a variable rather than a value, change "Modules may optionally elect not to use the Recommended_CTLE_value" to "Modules may optionally elect to ignore Recommended_CTLE_value". In item 2 of the list in 83E.4.2, change "For host compliance, the CTLE peaking in the reference receiver shall be set to three values" to "Host compliance shall be tested with multiple reference receiver CTLE peaking settings"; and change "and passes eye height B in Table 83E-1 at all of the two or three settings" to "and passes eye height B in Table 83E-1 at all tested settings". In PICS item RM2, change "using settings associated with Recommended_CTLE_value" to "with multiple values of Recommended_CTLE_value on both high-loss and low-loss tests". Consider splitting this item into two, for the high-loss and low-loss tests. Proposed Response Response Status W PROPOSED REJECT. Although three settings are referenced, text highlights "if present". The proposed changes	to better correlate specification for th with a wider band specification value <i>SuggestedRemedy</i> Use this modified for the stressed re with TxVEC (or th page 124 to say " detailed implement closure penalty ca TxVEC). It woul new subclause im description on page	-	Transmitter specification. tivity is only a maximum v is measured with but with seful purpose. hame see other comment the VECP row in table 95 of the text. Change the s of text. Change the s	The existing TxVEC value and is calculated to the same at a sthe main criterion 5-7 and replace VECP sentence on line 50 d the value" (For t the Vertical eye with this version of wn name and create a
to use "multiple", "all tested settings" and "ignore" do not improve the clarity of the draft	Proposed Response	Response Status	W	
	This was discusse http://www.ieee80 Implement the cha	ed in the MMF ad hoc, as ( 2.org/3/bm/public/sep14/k	ing_02_0914_optx.pdf	
YPE: 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/w		ed Z/withdrawn	Comment ID r01-17	Page 5 of 24 04/09/2014 23:11:

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

C/ 83E SC 83E.3.4.1.1 P184 L1 # r01-18	C/ 83E SC 83E.3.4.1.1 P 187 L 49 # r01-20
Dudek, Michael QLogic Corporation	Dudek, Michael QLogic Corporation
Comment Type       ER       Comment Status       D         The reference describing pattern 4 has been removed. It is not friendly to the reader to have to search in other sub-clauses to find what this is. There is a convenient sentence close by in the same paragraph where it can be added very easily.         SuggestedRemedy         Change "Patterns 3 and 5 are described in Table 86-11." to "Patterns 3.4 and 5 are	Comment Type       T       Comment Status       D         The order of the steps is incorrect.       The pattern needs to be changed before the BER is measured.         SuggestedRemedy         Preferably move the paragraph "The pattern is then changed to Pattern 5 (with or without FEC encoding), Pattern 3 or a valid 100GBASE-R signal for the input test which is
described in Table 86-11." Make the same change on page 187 line 24.  Proposed Response Response Status W PROPOSED ACCEPT. Change Patterns 3 and 5 are described in Table 86-11 to Patterns 3, 4 and 5 are described in Table 86-11 in 83E.3.3.2.1 (line 1 on page 184) and 83E.3.4.1.1 (line 25 on page 186)	<ul> <li>conducted by inserting the module into the MCB." to be a sentence on line 43 immediately before "The module under test shall meet". As an alternative solution change the paragraph to "The input test is conducted by inserting the module into the MCB and measuring the BER with Pattern 5 (with or without FEC encoding), Pattern 3 or a valid 100GBASE-R signal".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. Move the paragraph</li> </ul>
Cl 83E       SC 83E.3.4.1.1       P 187       L 30       # r01-19         Dudek, Michael       QLogic Corporation       Comment Type       E       Comment Status       D         The sentence would read better with a change in word order.       SuggestedRemedy       Change " For the high loss case, frequency dependent attenuation is added such that from the output of the pattern generator to TP1a is 13.8 dB loss at 12.89 GHz" to "For the high loss case, frequency dependent attenuation is added such that the loss at 12.89GHz from the output of the pattern generator to TP1a is 13.8 dB."	Change: accessible through register 1.169 (see 45.2.1.92a). The module under test to accessible through register 1.169 (see 45.2.1.92a). The pattern is then changed to Pattern 5 (with or without FEC encoding), Pattern 3 or a valid 100GBASE-R signal for the input test which is conducted by inserting the module into the MCB. The module under test remove the now redundant paragraph

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/83E SC	83E.3.1.6	P 178	L 10	# r01-21	C/ 83D	SC	83D.3.1.1	P 161	L 41	# <u>r</u> 01-23
Dudek, Michael		QLogic Corpo	ration		Dudek, Mi	chael		QLogic Corpo	oration	
Comment Type	Е	Comment Status D			Comment	Туре	TR	Comment Status D		
	nended CTL	g the host output eye width a E peaking value" as "also" u			transm	nitter eq	ualization	les 83D-2 and 83D-3 do no and it isn't obvious from the n the transmitter.		•
00	•	ded CTLE peaking value (w	hich is also used	d for host output eve	Suggested	Remea	ly			
measureme to "The reco	nts) is provid mmended C	led to the module via the va TLE peaking value is used f the module via the variable	riable Recomme or host output e	nded_CTLE_value." ye measurements. In	monot and Lo	onic ch cal_eq	ange in tra _c1 value :	ve step in Local_eq_cm1 ar nsmitter equalization." to "E shall result in a monotonic o	ach successive	step in Local_eq_cm
Proposed Respo	onse	Response Status W						all statement.		
Change:		N PRINCIPLE. .E peaking value (which is a	lso used for hos		Proposed PROP		ase ACCEPT.	Response Status W		
		ded to the module via the va			C/ 83D	SC	83D.3.1	P 161	L 35	# r01-24
		plemented, this variable is a	ccessible throug	h register 1.169 (see	Dudek, Mi	chael		QLogic Corpo	oration	
45.2.1.92a). To:					Comment	Tvpe	TR	Comment Status D		
addition it is	provided to IDIO is imple I5.2.1.92a)."		Recommended_	CTLE_value. If a	The lir equiva SNDR	lear fit r lent wit ) of Tra	nethod des h Np =14 a	scribed in 93.8.1.5.1 and 93 and Dp=2. This will enable stortions that can't be remo de.	equalization (eg	removal from Tx
A130 366 C0		5			Suggested	Remea	ly			
oudek, Michael	© 83E.3.4	P <b>185</b> QLogic Corpo	L 40 ration	# <u>r01-22</u>	the pa	rameter		ferences 93.8.1.5.2 and 93 sured as defined in the refe e 5."		
omment Type	т	Comment Status D			Proposed	•		Poononoo Statua INI		

As stated in the footnote the DC common mode voltage (min) and (max) are generated by the host not the module. The specification is really the voltage tolerance. We already have this tolerance specified as a single-ended voltage tolerance so these additional specifications are not needed.

#### SuggestedRemedy

Delete the rows "DC common mode voltage (min) and DC common mode voltage (max).

#### Proposed Response Response Status W

#### PROPOSED REJECT.

This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.

During the implementation of Table 83E-7 some committee members felt that specifying both single-ended voltage tolerance and DC common mode voltage was desirable.

# 

C/ 83D SC 83D.3.1	P 161	L <b>35</b>	# r01-24
Dudek, Michael	QLogic Corpor	ation	

#### Proposed Response Response Status W

#### PROPOSED ACCEPT.

This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.

However, the changes suggested are an improvement to the draft that would otherwise need to be made in maintenance.

Make the changes as per the Suggested Remedy.

				·						
C/ 83E SC 83E.3.1.4 Dudek, Michael	P <b>178</b> QLogic Corp	L 3	# r01-25	<i>Cl</i> <b>95</b> Dudek, M		95.8.8.2		123 gic Corp	L 36	# r01-27
	<b>0</b> 1	oration		,					oration	
The draft says the transition the waveform is observed	through a 12GHz low pas	ss filter response	, which would negate		ise of th		<i>Comment Status</i> ock in Figure 95-5 is lacment), J2 and J4	a probl		the SRS input signal below 10MHz.
pass response with 33 GH	the intent of the earlier statement "A test system with a fourth-order Bessel-Thomson low- pass response with 33 GHz 3 dB bandwidth is to be used for all output signal measurements, unless otherwise specified." as this does specify a lower bandwidth.									ure 95-3. Add to the
SuggestedRemedy Add to the end of the sente	ence "with the exception	that the observat	ion is though a 33 GHz	10 MI	Iz and a	a slope of	20 dB/decade. On	line 42	page 123 change	a corner frequency o the sentence suring the jitter on the
low pass filter response".			-				smitting the square			
Proposed Response F	Response Status W						eplacing the CRU in cope, while transmit			ern." and on line 48
PROPOSED ACCEPT. (applies to 83E.3.1.5 Trans	sition time)			delete		e 10MHz"				paragraph starting wit
This comment does not ap P802.3bm/D3.0 or the uns within the scope of the rec However, the changes suc	atisfied negative comme rculation ballot.	nts from the initia	al ballot. Hence it is not	Proposed PROI	•		Response Status	w		
need to be made in mainte Make the changes as per t	nance.						the MMF ad hoc, as //3/bm/public/sep14/			
C/ 95 SC 95.8.5.1	P 118	L 13	# r01-26	See r	esponse	e to comm	nent r01-17			
Dudek, Michael	QLogic Corp	oration		C/ 95	SC	95.8.8.2	P	122	L <b>45</b>	# r01-28
Comment Type TR	Comment Status D			Dudek, M	ichael		QLo	gic Corp	oration	
TxVEC is more than a mea the estimated effect of a w				Comment	Туре	TR	Comment Status	D		
SuggestedRemedy Change "TxVEC is a meas is an estimate of the vertic of a worst case fiber." Rep "SeC" as the variant of the	al eye closure produced lace "TxVEC" with "TDe0 test with the wider band	by the optical tra C" throughout the width being prop	nsmitter at the output document. Also use osed by another	narro jitter t the re	w enoug hen inci sultant c is char	gh to creat reasing the VECP to b	te 2/3 of the VECP v e jitter from this low	vihout th value to the requ	e additional interf 0.55UI J4 and 0.4 ired VECP. This i	41UI of J2 will cause is equally true if the
comment for Stressed Rec TDeC stands for Transmitt				Suggeste	dReme	dy				
as estimated instead) SeC				Redu	ce the J	2 and J4 \			,	and Rj values used
Proposed Response F	Response Status W			for 40	GBASE	-SR4 and	I 100GBASE-LR4, J	2 =0.3, .	J4 = 0.37 and redu	uce the factor of 2/3 t

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Choose name in Task Force See also comment r01-76

# Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

half on line 45.

Subject to TF review of http://www.ieee802.org/3/bm/public/sep14/dawe\_02\_0914\_optx.pdf

See also comments r01-9, r01-73, and r01-90

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: Comment ID

Comment ID r01-28

Page 8 of 24 04/09/2014 23:11:12

/ 95 SC 95.8.8.2 P 122 L 47 # r01-29	C/ 95 SC 95.7.2 P 115 L 44 # r01-31					
udek, Michael QLogic Corporation	Dudek, Michael QLogic Corporation					
omment Type T Comment Status D	Comment Type T Comment Status D					
A fixed amount of sinusoidal jitter is part of the test and therefore it can't be in an "or"	VECP and stressed eye jitter are not the only parameters that are test conditions.					
statement. Also the Gaussian noise and sinusoidal amplitude interer 1 will also create additional VECP	SuggestedRemedy					
uggestedRemedy	Make the footnote d to apply to the title "Conditions of stressed receiver sensitivity test"					
Change "Any remaining VECP must be created with sinusoidal interferer 2 or sinusoidal jitter" to "The sinusoidal jitter will add some VECP, and any remaining VECP should be	remove the footnote d from the individual lines. Change footnote d to say " These test conditions are for measuring stressed receiver sensitivity. They are not characteristics of the receiver."					
created with sinsoidal interfers 1 and 2 and the Gaussian noise generator."	Proposed Response Response Status W					
roposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE.					
PROPOSED ACCEPT IN PRINCIPLE.	See comment r01-72					
This was discussed in the MMF ad hoc, as documented in	See comment to 1-72					
http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf	C/ 95 SC 95.7.1 P 114 L 41 # r01-32					
See response to comment r01-17	Dudek, Michael QLogic Corporation					
	Comment Type TR Comment Status D					
/ 95 SC 95.8.8.2 P 123 L 53 # r01-30	With the new specification method using TxVEC it is not certain that the same value should be a set of the same value should be a set of the se					
udek, Michael QLogic Corporation	be used for TxVEC as was used for TDP in earlier drafts, particularly as the effects of Modal noise and mode partition noise are now included in the test through the M					
omment Type TR Comment Status D	parameter, whereas they were not included in the TDP test.					
This modified TxVEC is supposed to emulate the output of the fiber and therefore the effects of Mode Partition noise and modal noise should not be being added into the	SuggestedRemedy Investigate whether the maximum value of TxVEC is appropriate, and if not change it, with					
measurement as this causes the stressed signal to be less stressful.						
uggestedRemedy	potential consequential changes to other budgetted parameters including stressed receive					
Add to the end of the sentence "and M is set equal to zero."	OMA, modified TxVEC for the Rx, and OMA-TxVEC, .					
roposed Response Response Status W	Proposed Response Response Status W					
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE. See response to comment r01-71 for TxVEC limit and see response to comment r01-70 for					
	consequential changes to other parameters.					
See comment r01-87						

C/ 83E         SC 83E.1.1         P 173         L 3         # [r01-33]           Petrilla, John         Avago Technologies	C/         95         SC         95.7.2         P 115         L 36         # [r01-35]           Petrilla, John         Avago Technologies         February         February
Comment Type         E         Comment Status         D           The phrase, "Maximum BER assumes errors are not correlated to ensure", may not capture the intention since assuming something doesn't really ensure something.         SuggestedRemedy           Suggested Remedy         Change the phrase, "Maximum BER assumes errors are not correlated to ensure", to "Maximum BER requires errors are not correlated to ensure"	Comment Type       TR       Comment Status       D         It would be helpful to include the hit ratio associated with the eye mask coordinates.         SuggestedRemedy         Add to the Description column for Stressed receiver eye mask definition the following, "Hit ratio 5 x 10^-5 hits per sample".         Proposed Response       Response Status       W
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to "Maximum BER requires that errors are not correlated to ensure"	PROPOSED ACCEPT. See also comment r01-74
C/     83E     SC     83E.3.1     P 179     L 26     # [r01-34]       Petrilla, John     Avago Technologies	C/         95         SC         95.8.4         P 118         L 4         # r01-36           Petrilla, John         Avago Technologies         Avago Technologies         P 118         Avago Technologies         Avago Technologies
Comment Type <b>T</b> Comment Status <b>D</b> In Table 83E-1 (also 83E-3) there are parameters Eye width and Eye height and references that eventually lead to the method in 83E.4.2. Here terms EW6 & EW15 and EH6 & EH15 are defined and used. Unfortunately there's no explicit mapping between Eye width and Eye height in the tables and EW6 & EW15 and EH6 & EH15 in 83E.4.2 and the term "eye width" is used with both terms EW6 and EW15. It would be helpful to the reader, if the mapping were explicit	Comment Type       E       Comment Status       D         It would be helpful in understanding the first sentence of 95.8.4 if the phrase, " as defined in" was repeated befor the reference to 68.6.2         SuggestedRemedy         Change, "if measured as defined in 52.9.5 for measurement with a square wave (8 ones, 8 zeros) test pattern or 68.6.2", to "if measured as defined in 52.9.5 for measurement with a square wave (8 ones, 8 zeros) test pattern or as defined in 68.6.2"
SuggestedRemedy Change Eq 83E-7 from "EW15 = EW6 - 3.19 x (RJR + RJL)" to "Eye width = EW15 = EW6 - 3.19 x (RJR + RJL)" and Change Eq 83E-8 from "EH15 = EH6 - 3.19 x (RN0 + RN1)" to "Eye height = EH15 = EH6 - 3.19 x (RN0 + RN1)" Proposed Response Response Status W	Proposed Response       Response Status       W         PROPOSED ACCEPT.       This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.
PROPOSED REJECT. This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the score of the registrulation ballot.	However, the changes suggested are an improvement to the draft that makes the draft easier to understand. Make the changes as per the Suggested Remedy.

within the scope of the recirculation ballot.

The connection between the term eye height and EW15 is made via the text "The eye width is then given by Equation (83E-7)". Similarly for eye height.

C/ 95 SC 95.8.5.2 P	119 L 2	# r01-37	C/ 95	SC 95.	8.8.5	P <b>125</b>	L <b>1</b>	# r01-39
Petrilla, John Ava	go Technologies		Petrilla, Jo	ohn		Avago Teo	chnologies	
Comment Type <b>TR</b> Comment Statu	5 D		Comment	Туре Е	R	Comment Status D		
For best results the attributes "average op eye diagram, and the four vertical histogra measured from one eye diagram. If this d pattern should be used.	ms used to calculate TxV	/EC", should all be	term.	Unless this the term "s	s is a diffe	he term "sine jitter" is u erent type of jitter, it wo jitter" to be consistent	uld be less confus	ing to the reader to
SuggestedRemedy			00		er" to "sin	usoidal jitter"		
Change, "The average optical power (Pav and the four vertical histograms used to ca Pattern 5." to "The average optical power diagram, and the four vertical histograms only one of the patterns for TxVEC in Table	Iculate TxVEC, are mease Pave) and the crossing p used to calculate TxVEC,	sured using Pattern 3 or points of the eye	Proposed PROF	Response POSED AC	I CEPT.	Response Status W		# 101.40
			C/ 95	SC 95.	11.1	P 127	L9	# r01-40
Proposed Response Response Status	W		Petrilla, Jo			Avago Teo	chnologies	
PROPOSED ACCEPT IN PRINCIPLE. Change:			Comment			Comment Status D		
"The average optical power (Pave) and the vertical histograms used to calculate TxVE	crossing points of the e	ye diagram, and the four Pattern 3 or Pattern 5."		seems to l 95-13	be no PIC	associated with the 's	hall' in the first ser	tence of 95.11.1 and
to:	-		Suggeste	dRemedy				
"The average optical power (Pave), the cruver vertical histograms used to calculate TxVE			Add a	PIC, "Mee	ets require	ments specified in Tab	le 95-13" to 95.12	2.4.6
selected from those identified for TxVEC in		ig the same test pattern	Proposed	Response	1	Response Status W		
Petrilla, John Ava	121 <i>L</i> 50 go Technologies	# [ <u>r01-38</u>	This c P802. within	3bm/D3.0 the scope	oes not ap or the uns of the rec	oply to the changes be atisfied negative comr irculation ballot. ggested are an improve	nents from the initi	al ballot. Hence it is not
Comment Type T Comment Statu Since retimers are an essential element in include the warning from FC-MSQS-2 regi	100GBASE-SR4 links, it		Insert		nal PICS i	enance. tem to 95.12.4.6 as C0 cs", "95.11.1", "Per Tal		", "Yes [ ] N/A [ ]"
SuggestedRemedy			C/ 95	SC 95.	12.4.5	P 134	L <b>41</b>	# r01-41
Add after the phrase, "care should be take			Petrilla, Jo			Avago Teo		
sinusoidal interferers, the sinusoidal jitter, rate.", the following sentence, "Phase mod			Comment		R	Comment Status D		
recommended as many CDRs do not perf sinusoidal phase modulation."			PIC C	SE2 calls o	out IEC H			comment entries. This i
Proposed Response Response Status	w		Suggeste		300-0100			as the requirement.
PROPOSED REJECT. There's a limit to sinusoidal jitter tolerance vs frequency, and DCD is limited to 0.1 UI.		is limited to 0.1 UI.	00	ge PIC CES	S2 to call	out IEC Hazard Level	1M in the Feature	and Value/Comment
				Response	,	Response Status W		
			PROF		CEPT IN	PRINCIPLE.		

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: Comment ID

C/         95         SC         95.8.1         P 117         L 11         #         r01-42           Petrilla, John         Avago Technologies         February         February	C/ 95 SC 95.8.5.1 P 118 L 40 # r01-44 Le Cheminant, Greg
Comment Type TR Comment Status D The test patterns appropriate for TxVEC and VECP measurements should be the same as for the Tx optical waveform, Stressed Rx sensitivity, etc. SuggestedRemedy In Table 95-10, change the Pattern entry for TxVEC to "3, 5 or valid 100GBASE-SR4	Comment Type <b>T</b> Comment Status <b>D</b> 95.8.5 introduces the concept of a receiver that emulates a receiver and a worst case channel with a specific bandwidth. 95.8.5.1 then specifies the response to be fourth order Bessel Thomson and a specific bandwidth. For consistency in implementation and to avoid incorrect interpretation in how to emulate a worst case channel (a new concept), the filter response should be further defined by requiring a filter tolerance
Proposed Response Response Status W PROPOSED ACCEPT. See also comment r01-75	SuggestedRemedy complete the sentence "bandwidth of 12.6 GHz." by adding: with filter tolerances as specified for STM-64 in ITU-T G.691."
C/         95         SC         95.7.1         P 114         L 41         # r01-43           Petrilla, John         Avago Technologies         Avago Technologies         P 114         <	Proposed Response Response Status W PROPOSED REJECT.
Comment TypeTRComment StatusDThe value, 5, entered for max TxVEC may not be correct for the method defined 95.8.5 and its subclauses and should be verified. One check was to use a link model and replace the worst case Rx with an Ref Rx with the same sensitivity and then replace the worst case Tx with an idealized Tx. The difference in link penalties and margin varies from 4.9 dB to 5.0 depending on inclusion/deletion of Pmn.	An exact bandwidth and response is defined, and compensation for any error is allowed. This avoids a situation where two measurements (with disparate results) using different (but within tolerance) filters can both be claimed to be using reference filters. The principle of reducing the bandwidth of the measurement to emulate the channel was also used in Clause 86.
SuggestedRemedy	Cl 95 SC 95.8.5.2 P 118 L 47 # 101-45
Review the value entered in Table 95-6 for max TxVEC and the factors 0.0257 and 0.01 in the equation for M and adjust as appropriate. For details see petrilla_01_0914_optx	Le Cheminant, Greg
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. see response to comment r01-71	Comment Type         T         Comment Status         D           The TxVEC result is based on measurements of the eye diagram using pattern 3 or 5 as well as an OMA measurement based on a square wave pattern. Without some significant complexity in triggering the oscilloscope, a unique oscilloscope configuration and trigger is required for each measurement. TxVEC uses a special frequency response not intended for the OMA measurement. The current test process could be incorrectly interpreted as

#### SuggestedRemedy

If the existing text is followed precisely, correct results are obtained. However, if line 50 is placed ahead of 47, no one should incorrectly believe the TxVEC setup is implied for use with the OMA measurement.

#### Proposed Response Response Status W

using one setup for both measurements.

#### PROPOSED REJECT.

The warning is appreciated, but it seems strange to have a TxVEC section begin with an OMA measurement section, and as noted, if the existing text is followed precisely, correct results are obtained.

C/         83D         SC         83D.3.3         P 163         L 24         # r01-46           Dawe, Piers J G         Mellanox Technologie	C/ 83ESC 83E.1P 171L 54Dawe, Piers J GMellanox Technologie	# r01-48
Comment Type       E       Comment Status       D         According to 93A.2 and 93C.2, it appears that interference tolerance is calibrated at TP5 replica not TP5a.         SuggestedRemedy         Could add a footnote to the interference tolerance row: "Calibrated at TP5 replica (see 93C.2)."         Proposed Response       Response Status         W         PROPOSED REJECT.	Comment Type       E       Comment Status       D         Blank lines or white space (in the clean version) cause 83E.1.1 to appe         SuggestedRemedy         In the clean version, at p171 lines 53-54, p172 lines 28, 52-54.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         Remove blank lines with editorial license	<i>Bucket</i> ear on a later page.
This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.         Since the draft references Annex 93C for the method, such a footnote is not needed:         "The receiver shall satisfy the requirements for interference tolerance defined in Table 83D-5. The interference tolerance test uses the method described in Annex 93C as specified by 93.8.2.3."         C/ 83E       SC 83E.1       P 171       L 52       # r01-47	CI 83E       SC 83E.1       P 174       L 25         Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       D         Figure 83E-5 could be centred like the one above.       SuggestedRemedy       Centre the figure         Proposed Response       Response Status       W         PROPOSED ACCEPT.       P174       L 25	# <u>r01-49</u> Bucket
Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       D         Draft uses "chip-to-module XLAUI", "chip-to-module CAUI-10", "chip-to-module CAUI-4" and "CAUI-4 chip-to-module". It seems more natural to put the adjective before the noun.         SuggestedRemedy         Change "CAUI-4 chip-to-module" to "Chip-to-module CAUI-4" throughout. Also for "CAUI-4 chip-to-chip".         Proposed Response       Response Status       W         PROPOSED REJECT.         This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.	Cl 83E       SC 83E.2       P 173       L 35         Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       D         Rogue capital       SuggestedRemedy       Change "measuring Host CAUI-4" to "measuring host CAUI-4" (as for m paragraph).         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       This comment does not apply to the changes between IEEE P802.3bm/P3.0 or the unsatisfied negative comments from the initial bawithin the scope of the recirculation ballot.         However, the changes suggested are an improvement to the draft that the need to be made during the publication process.         Make the changes as per the Suggested Remedy.         Also, two lines above change "the Host and Module respectively" to "the respectively".	/D3.1 and IEEE allot. Hence it is not would otherwise

C/ 83E         SC 83E.3.1.2         P 175         L 32         # [r01-51]           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie	C/         83E         SC         83E.3.1.2         P 175         L 36         #         r01-53           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie
Comment Type E Comment Status D	Comment Type E Comment Status D Bucket
Table 83E-1 refers to 83E.3.1.2 for single-ended output voltage but there is no mention of it there.	Blank lines or white space (in the clean version) cause 83E.3.1.5 to appear on a later page.
SuggestedRemedy	SuggestedRemedy In the clean version, at p175 lines 1-2, p176 lines 1-3, 25-27.
Change "The peak-to-peak differential voltage vdi is defined to be SLi minus SLi <n>." to "The peak-to-peak differential voltage vdi is defined to be the difference between the single-ended output voltages, SLi minus SLi<n>.".</n></n>	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W	With editorial license
PROPOSED ACCEPT IN PRINCIPLE.	C/ 83E SC 83E.3.1.2 P175 L 50 # r01-54
This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE	Dawe, Piers J G Mellanox Technologie
P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.	Comment Type E Comment Status D Sentences duplicate Table 83E-1: "The peak-to-peak differential output voltage is less than
<ul> <li>However, while this text is consistent with other clauses (e.g., 93.8.1.3), single ended output voltage specs have been added to this Annex, so this change is an improvement that would otherwise need to be made in maintenance.</li> <li>Change:</li> <li>"The peak-to-peak differential voltage vdi is defined to be SLi minus SLi<n>." to:</n></li> <li>"The peak-to-peak differential voltage vdi is defined to be the difference between the single-ended output voltages, SLi and SLi<n>."</n></li> </ul>	or equal to 900 mV. The peak-to-peak differential output voltage is less than or equal to 35 mV when the transmitter is disabled."  SuggestedRemedy Delete the sentences, or change to "The maximum limits for peak-to-peak differential output voltage when the transmitter is enabled and disabled are given in Table 83E-1.".  Proposed Response Response Status W
	PROPOSED REJECT.
C/ 83E         SC 83E.3.1.2         P 175         L 32         # [r01-52]           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie	This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the page of the regimentation helicit.
Comment Type T Comment Status D	within the scope of the recirculation ballot. This text is not technically incorrect
If we are going to touch 83E.3.1.2 it would be good to clean up the confusion between voltage and peak voltage. At present, according to 83E.3.1.2, AC common-mode voltage is 0 by definition.	
SuggestedRemedy	
Change "The peak-to-peak differential voltage vdi is defined to be SLi minus SLi <n>." to "The peak-to-peak differential voltage vdi is defined to be the maximum of SLi minus the minimum of SLi<n>."</n></n>	
Proposed Response Response Status W	
PROPOSED REJECT. This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot. The peak-to-peak differential voltage text is consistent with the definition in other clauses (93.8.1.3)	

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: Comment ID

C/ 83E         SC 83E.3.1.6         P 178         L 16         # [r01-55]           Dawe, Piers J G         Mellanox Technologie	C/         83E         SC         83E.3.3.3.1         P 184         L 46         # r01-58           Dawe, Piers J G         Mellanox Technologie
Comment Type E Comment Status D	Comment Type T Comment Status D
Sentence without a verb: "For the case of Pattern 3, with at least 31 UI delay between the	CTLE does not have to be in software (see 83E.3.2.1.1).
PRBS31 patterns on one lane and any other lane." Also in 83E.3.2.1.	SuggestedRemedy
SuggestedRemedy	Change "selectable software CTLE" to "selectable CTLE". Also in 83E.3.4.2.1.
	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT IN PRINCIPLE.	This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE
This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE	P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.
P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not	However, the changes suggested are an improvement to the draft that would otherwise
within the scope of the recirculation ballot. However, the changes suggested are an improvement to the draft that would otherwise	need to be made in maintenance.
need to be made in maintenance.	Make the changes as per the Suggested Remedy. (applies to 83E.3.3.2.1 and 83E.3.4.1.1 in clean version)
Change to: "For the case where Pattern 3 is used with a common clock, there is at least 31 UI delay between the PRBS31 patterns on one lane and any other lane."	C/ 83E SC 83E.3.3.3.1 P 186 L 11 # r01-59
Also in 83E.3.2.1, 83E.3.3.2.1, 83E.3.4.1.1	Dawe, Piers J G Mellanox Technologie
C/ 83E SC 83E.3.2 P 180 L 50 # r01-56	Comment Type E Comment Status D
Dawe, Piers J G Mellanox Technologie	Consistent terminology: Table 83E-6 uses "host input" not receiver.
Comment Type E Comment Status D Bucket	SuggestedRemedy
Text wrapping in cell, Table 83E-3.	Change "exceeding the receiver's differential pk-pk input voltage tolerance specification" to
SuggestedRemedy	"exceeding the differential pk-pk input voltage tolerance specification".
Can make LH column wider, 2nd column narrower if needed.	Similarly in 83E.3.4.2.1.
Proposed Response Response Status W	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
PROPOSED ACCEPT.	(applies to 83E.3.3.2.1 and 83E.3.4.2.1 in clean version)
	Change:
C/ 83E SC 83E.3.3.1 P 184 L 1 # r01-57	"(without exceeding the receiver's differential pk-pk input voltage tolerance specification as shown in Table 83E-4)"
Dawe, Piers J G Mellanox Technologie	to:
Comment Type E Comment Status D Bucket	"(without exceeding the differential pk-pk input voltage tolerance specification as shown in Table 83E-4)"
Blank lines or white space (in the clean version) may be causing Table 83E-8 to appear on	Change in 83E.3.4.1.1:
a later page.	"(without exceeding the receiver's differential pk-pk input voltage tolerance specification as
SuggestedRemedy In the clean version, at p182 lines 1-3 and 52-54, p176 lines 1-3, 25-27.	shown in Table 83E-7)" to:
	"(without exceeding the differential pk-pk input voltage tolerance specification as shown in
Proposed Response Response Status W PROPOSED REJECT.	Table 83E-7)"
Table 83E-8 will not move on to the previous page.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G	/general Comment ID r01-59 Page 15 of 24
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	
SORT ORDER: Comment ID	

C/ 83E         SC 83E.3.3.3.1         P 185         L 50           Dawe, Piers J G         Mellanox Technologie	# r01-60	C/ 83E SC 83E.3.4.2.1 Dawe, Piers J G	P <b>189</b> Mellanox Techr	L <b>2</b> nologie	# r01-62
Dawe, Piers J G       Mellanox Technologie         Comment Type       T       Comment Status       D         The 19 ps crosstalk generators here (emulating a host) should be th 83E.3.2.1 which are calibrated at 900 mV with an unstated pattern, p equivalent. Yet here they are calibrated at 900 mV with PRBS9, whi a few percent bigger when the pattern is changed for the stressed in signal will be beyond the 900 mV limit for the module input, and the amplitudes will be a nuisance for labs testing both hosts and module. There is a similar problem in the other direction.         SuggestedRemedy       Change 900 to 870, here and in 83E.3.4.2.1.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. (applies to 83E.3.3.2.1 and 83E.3.4.1.1 in clean version)       This comment does not apply to the changes between IEEE P802.3         P802.3bm/D3.0 or the unsatisfied negative comments from the initia changes suggested are an improvement to the draft that would othe in maintenance.	oresumably PRBS31 or ch will make the signal put test. The bigger wo different s. pm/D3.1 and IEEE I ballot. However, the	Comment Type <b>T</b> C Is this target transition time SuggestedRemedy Should it be 12 ps as in 838	Comment Status D of 19 ps at TP4 correct? E.3.1.6? esponse Status W PRINCIPLE. osstalk channels during ca mplitude of 900 mV peak-to os as measured at TP4. osstalk channels during ca mplitude of 900 mV peak-to os as measured at TP4.	libration of the o-peak differen libration of the o-peak differen om module is 12	tial and 20% to 80% stressed signal are tial and 20% to 80% 2ps and for the host
In 83E.3.3.2.1 and 83E.3.4.1.1 Change: "The crosstalk signal is calibrated with Pattern 4. The pattern is char or without FEC encoding), Pattern 3 or a valid 100GBASE-R signal f test." to: "The crosstalk signal transition time is calibrated with Pattern 4. The Pattern 5 (with or without FEC encoding), Pattern 3 or a valid 100GE amplitude calibration and the stressed input test."	or the stressed input pattern is changed to	Cl 83E SC 83E.3.4.2.1 Dawe, Piers J G Comment Type T C "The module under test sha spec. SuggestedRemedy The module CAUI-4 received		is an interface	# r01-63
C/ 83E SC 83E.3.3.1 P 186 L 13	# r01-61		esponse Status W	DER	
Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       D         Style guide: that and which.       SuggestedRemedy       Consider if "CTLE which maximizes" should be "CTLE that maximizes"         Proposed Response       Response Status       W	25".	PROPOSED ACCEPT. Change in 83E.3.4.1.1 The module under test shal To The module CAUI-4 receive	, I meet the BER requirement		ient
PROPOSED ACCEPT. Change CTLE which maximizes to CTLE that maximizes					

in 83E.3.3.2.1

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

	P 190	L 22	# r01-64		.12.4.4	P 133	L 13	# r01-67
Dawe, Piers J G	Mellanox Techr	nologie		Dawe, Piers J G		Mellanox Te	chnologie	
Comment Type E	Comment Status D			Comment Type	E	Comment Status D		
Will is deprecated. V	e know what the pattern is, its tr	ansition density	y isn't exactly 50%.	Subclause title	doesn't n	natch its master subclause		
SuggestedRemedy				SuggestedRemedy				
Change "CDFR will b	e 0.5" to "CDFR would be 0.5."					ement methods" to "Definit	tion of optical pa	rameters and
Proposed Response	Response Status W			measurement m				
PROPOSED ACCEP				Proposed Response		Response Status W		
P802.3bm/D3.0 or th within the scope of th However, the change need to be made dur	is suggested are an improvementing the publication process.	s from the initial It to the draft the	ballot. Hence it is not at would otherwise	P802.3bm/D3.0 within the scope In general there	loes not or the un of the re is not a	apply to the changes between satisfied negative comme ecirculation ballot. one to one match between se in the main clause.	nts from the initia	al ballot. Hence it is no
C/ 83E SC 83E.5.4		L9	# r01-65	C/ 95 SC 95	.12.4.4	P 133	L 20	# r01-68
Dawe, Piers J G	Mellanox Techr	nologie		Dawe, Piers J G		Mellanox Te		101 00
Comment Type T	Comment Status D				E	Comment Status D		
module can elect not to use Reco	e feature column, and not strictly mmended_CTLE_value (althoug 3.4.2.1 doesn't say 1e-15, it refe	gh the test uses	it). In	All parameters a	are defino oning mo	ed for modulated signals, the dulated does not contain a		
SuggestedRemedy				SuggestedRemedy				
Feature: BER require Value/Comment: As	ment 33E.1.1 with settings associated	with Recomme	nded_CTLE_value	Delete "under m last sections of		l conditions". Remove any 5.	other unwanted	discrepancies in the
Proposed Response	Response Status W			Proposed Response	9	Response Status W		
PROPOSED ACCEP	Т.			PROPOSED RE				
TROF OULD MOULT		L1	# r01-66	P802.3bm/D3.0	or the u	apply to the changes between nsatisfied negative comme		
Cl 93A SC 93A Dawe, Piers J G	P <b>194</b> Mellanox Techr	-		Clause 52 uses	e of the re under	ecirculation ballot. modulated conditions" in th	e PICS OM2.	
C/ 93A SC 93A		-	Bucket	Clause 52 uses	"under	ecirculation ballot. modulated conditions" in th spectral bandwidth complia		the PICS.
Cl 93A SC 93A Dawe, Piers J G Comment Type E	Mellanox Techr	-		Clause 52 uses	"under	modulated conditions" in th		the PICS.

Daws, Priors J G       Mellanox Technologie         Comment Type E       Comment Status D         Suggested/Barnedy       Comment Status D         Change Complies with applicable local and national codes for the limitation of electromagnetic interference" to "Complies with applicable codes of the limitation of electromagnetic interference" the Clause B or (because the subject can be infinited the transmitter TVVEC Limit Status D         Proposed Response       Response Status W         PROPOSED Code Transmitter and the clause B or (because the subject can be infinited for the infinited or electromagnetic interference" to "Complexe Name and the transmitter TVVEC Limit Status D         Comment Type TR       Response Status W         PROPOSED Core Transmitter TVPC Transmitter TVPC Clause B or (because the subject can be infinited the transmitter TVPC Limit Table 95-6 (transmitter) and condition in Table 95-7 (receiver) from 5 B to 43 dB (to be confirmed - see work of MMF ad hoc and/or presentation at the methylow table of the proposed tect, the current text is more helpful in reminding the reader that a finite and the proposed tect, the current text is more helpful in terminding the reader that the proposed tect, the current text is more helpful in terminding the reader that the transmitter TVP-Wow.linee802.07g/3bm/public/sep14/detaile.01.0914.optx.pdf         Deave, Pers J G       Mellanox Technologie         Consecurity Type TR       Comment Nature 101-32         Suggested/Remove Comment Nature 101-32       See also comment for measure status D         Deave, Pers J G       Mellanox Technologie	C/ 95 SC 95.12.4.5	P 133	L <b>45</b>	# r01-69	C/ 95	SC 95.7.1	P 112	L <b>41</b>	# r01-71
To long for a value(comment) Suggested/Remody Change Complex with applicable local and national codes for the limitation of electromagnetic inteference its Clause BS or (because the subject can be implied from the facture column, lust clause BS or (because the subject can be implied from the second sec	Dawe, Piers J G	Mellanox Tech	nnologie		Dawe, Pie	rs J G	Mellanox Tech	nologie	
SuggestedRamedy         Compare Summary in the policable local and national codes for the limitation of electromagnetic interference' the 'Compaies with applicable codes' for the limitation of electromagnetic interference' the Compare Status SV         Proposed Response Response Response Status SV         Proposed Response Response Response Status SV         Proposed Response Response Response Response Status SV         Proposed Response Res	Comment Type E Co	mment Status D			Comment	Type <b>TR</b>	Comment Status D		
<ul> <li>Proposed Response Response Status W</li> <li>PROPOSE REJECT.</li> <li>This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.</li> <li>Compared to the proposed text, the current text is more helpful in reminding the reader that "applicable tocal and national codes for the limitation of EMI is should be followed.</li> <li>Ci <b>95</b> SC <b>95.7.1</b> P112 L <b>34</b> # [01-70</li> <li>Consequential changes following adjustment of TxVEC limit: OMA-TxVEC min, OMA min, mean power min, budget, allocation for penalties, SRS OMA. Any more?</li> <li>Suggested/Remedy</li> <li>See penaltors of the receiver.</li> <li>Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>Proposed Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE: Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>See also comment r01-32</li> <li>Proposed Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE: Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>See also comment r01-32</li> <li>Proposed Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE: Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>See also comment r01-32</li> <li>Proposed Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE: Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>See also comment r01-32</li> <li>Proposed Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE: Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf</li> <li>See also comment r01-31</li> </ul>	SuggestedRemedy Change "Complies with applic electromagnetic interference" electromagnetic interference" the feature column, just	cable local and national to "Complies with appl like Clause 89 or (beca	icable codes for	the limitation of	previo correc than a calibra TxVEC Suggested	us VECP and TDP tion ability). Also, i little if M=0), so we tion that we do not c limit also. See D <i>IRemedy</i>	(3.5 and 3.9) and near a "c for stressed eyes, TxVEC c e need to take care when we t make the eye even more s 3.0 comment 46 which reco	liff" (error floor ap an be a little less e switch to TxVE tressful. This wil mmended 4.3 dE	pproaching FEC's than VECP (more C based SRS I affect the transmitter 3.
Proposed Response Status W Proposed Response Res	PROPOSED REJECT.				from 5	dB to 4.3 dB (to b	e confirmed - see work of M	MF ad hoc and/o	
Dawe, Piers J G       Mellanox Technologie         Comment Type       TR       Comment Status       D         Consequential changes following adjustment of TxVEC limit: OMA-TxVEC min, OMA min, mean power min, budget, allocation for penalties, SRS OMA. Any more?       SuggestedRemedy       See presentation.         SuggestedRemedy       See presentation.       PROPOSED ACCEPT IN PRINCIPLE.       Subject to TF review of:       Note d of Table 95-7 should apply to all of the indented test conditions.         Subject to TF review of:       http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf       See also comment r01-32       Response Status W         PROPOSED ACCEPT IN       PRINCIPLE.       PROPOSED ACCEPT IN PRINCIPLE.       PROPOSED ACCEPT IN PRINCIPLE.         Subject to TF review of:       http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf       Proposed Response Response Status W         See also comment r01-32       PROPOSED ACCEPT IN       PRINCIPLE.       Response Status W         See also comment r01-32       See also comment r01-32       Response Status W       PROPOSED ACCEPT.	P802.3bm/D3.0 or the unsatis within the scope of the recircu Compared to the proposed te	fied negative commen lation ballot. xt, the current text is m	ts from the initial ore helpful in rer	ballot. Hence it is not ninding the reader that	PROP Subjec http://v	OSED ACCEPT IN to TF review of: vww.ieee802.org/3	V PRINCIPLE. /bm/public/sep14/dawe_01_		nd
Comment Type TR Comment Status D Consequential changes following adjustment of TxVEC limit: OMA-TxVEC min, OMA min, mean power min, budget, allocation for penalties, SRS OMA. Any more? SuggestedRemedy See presentation. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf See also comment r01-32 Cr 95 SC 95.7.2 P113 L28 # <u>ir01-72</u> Dawe, Piers J G Ownee, Piers J G Owneent Type E Comment Status D Note d of Table 95-7 should apply to all of the indented test conditions. SuggestedRemedy See presentation. PROPOSED ACCEPT IN PRINCIPLE. Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf See also comment r01-32	C/ 95 SC 95.7.1	P 112	L <b>34</b>	# r01-70	See al	so comments r01-4	43 and r01-32		
Consequential changes following adjustment of TxVEC limit: OMA-TxVEC min, OMA min, mean power min, budget, allocation for penalties, SRS OMA. Any more? SuggestedRemedy See presentation. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf See also comment r01-32 Metaduk Tech mologie Comment Type E Comment Status D Note d of Table 95-7 should apply to all of the indented test conditions. SuggestedRemedy Apply note d to "Conditions of stressed receiver sensitivity test:" not its subordinates. Change note to: These test conditions are for measuring stressed receiver sensitivity. They are not characteristics of the receiver. Proposed Response Response Status W PROPOSED ACCEPT. This was discussed in the MMF ad hoc, as documented in: http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf See also comment r01-31	Dawe, Piers J G	Mellanox Tech	nnologie		C/ 95	SC 95.7.2	P 113	L <b>28</b>	# r01-72
mean power min, budget, allocation for penalties, SRS OMA. Any more?         Suggested/Remedy         See presentation.         Proposed Response       Response Status         W         PROPOSED ACCEPT IN PRINCIPLE.         Subject to TF review of:         http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf         See also comment r01-32         Comment r01-32         Comment r01-32         Comment r01-31	Comment Type TR Co	mment Status D			Dawe, Pie	rs J G	Mellanox Tech	nologie	
Suggested/Remedy         See presentation.         Proposed Response Response Status W         PROPOSED ACCEPT IN PRINCIPLE.         Subject to TF review of:         http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf         See also comment r01-32         See also comment r01-32	mean power min, budget, allo					51		ed test condition	s
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Subject to TF review of: http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf See also comment r01-32 Response Response Response Status W PROPOSED ACCEPT. This was discussed in the MMF ad hoc, as documented in: http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf See also comment r01-31									
http://www.ieee802.org/3/bm/public/sep14/dawe_01_0914_optx.pdf       Proposed Response       Response Status       W         See also comment r01-32       PROPOSED ACCEPT.       This was discussed in the MMF ad hoc, as documented in: http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf         See also comment r01-31       See also comment r01-31	Proposed Response Res PROPOSED ACCEPT IN PR				Apply Chang These	note d to "Conditio le note to: test conditions are	o for measuring stressed rec		
See also comment r01-32       PROPOSED ACCEPT. This was discussed in the MMF ad hoc, as documented in: http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf         See also comment r01-31		public/sep14/dawe_01	_0914_optx.pdf						
	See also comment r01-32				PROP This w	OSED ACCEPT. as discussed in the	, e MMF ad hoc, as documen		
					See al	so comment r01-3	1		
						U/unsatisfied 7/w		nt ID <b>r01-72</b>	Page 18 of 24 04/09/2014 23:11:

C/ 95 SC 95.8.6 P 116 L 48 # r01-76
Dawe, Piers J G Mellanox Technologie
Comment Type E Comment Status D
To avoid confusion, we need a pair of distinct but obviously related names for TxVEC (successor to TDP) used for transmitter specs and TxVEC (successor to VECP) used for SRS calibration.
SuggestedRemedy
Use distinct names e.g. ETDP, ESP (estimated signal penalty), or ETDI and EI (impairment), or xyz12, xyz19.
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.5 in clean version)
See comment r01-26.
C/ 95 SC 95.8.6.2 P 117 L 41 # r01-77
Dawe, Piers J G Mellanox Technologie
Comment Type T Comment Status D
"the time average of the eye diagram crossing points, as measured at Pave" could be clearer.
SuggestedRemedy
Change to "the average of the crossing times, as measured at Pave" or "the average of the signal's crossing times, as measured at Pave" or "the average of all the crossing times, as measured at Pave"
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.5.2 in clean version)
Change "the time average of the eye diagram crossing points, as measured at Pave" to
"the average of the eye diagram crossing times, as measured at Pave"

C/ 95 SC 95.8.6.2 P117 L 41 # r01-78	C/ 95 SC 95.8.6.2 P118 L 6 # r01-80
Dawe, Piers J G Mellanox Technologie	Dawe, Piers J G Mellanox Technologie
Comment Type T Comment Status D	Comment Type E Comment Status D Buck
We should make it clear that that Pave, crossing points, and the histograms, are all measured with the same test pattern. Also as the patterns are identified in Table 95-10,	According to 1.4.409 and http://www.atis.org/glossary/definition.aspx?id=468, unit interval doesn't need capitals. The base document follows this 46/60.
we should refer to it. Deleting redundant "and".	SuggestedRemedy
SuggestedRemedy	Change Unit Interval to unit interval
Change	Proposed Response Response Status W
The average optical power (Pave) and the crossing points of the eye diagram, and the four vertical histograms used to calculate TxVEC, are measured using Pattern 3 or Pattern 5. to	PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.5.2 in clean version)
The average optical power (Pave), the crossing points of the eye diagram, and the four	Change 'Unit Interval' to 'unit interval' in Figure 95-4
vertical histograms used to calculate TxVEC, are all measured using the same one of the patterns identified for TxVEC calibration in Table 95-10.	Cl 95 SC 95.8.7 P 120 L 15 # [101-81
Proposed Response Response Status W	Dawe, Piers J G Mellanox Technologie
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type T Comment Status D
(applies to 95.8.5.2 in clean version)	There is no point trying to find what the signal would have been without receiver noise; it's not representative of how the signal is used, as well as any difficulty in doing it.
See response to comment r01-37	SuggestedRemedy
C/         95         SC         95.8.6.2         P 117         L 41         # r01-79           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie	If both masks are used at 1.5e-3 hit ratio, this is not important. Otherwise, consider changing "for any excess reference receiver noise." to "for any difference between the
Comment Type T Comment Status D	reference receiver noise and 17 uW RMS." Review mask coordinates and hit ratios.
"The average optical power of the eye diagram" could be misinterpreted. We should be	Proposed Response Response Status W
clear that this is the average of the whole signal, not of the 0 and 1 in the eye measurement procedure. The crossing points are explained in the next sentence.	PROPOSED REJECT.
SuggestedRemedy	The eye mask is defined with 1.5e-3 hit ratio.
Consider changing "The average optical power (Pave) and the crossing points of the eye diagram, and" to "The average optical power (Pave) of the whole signal, the crossing points, and".	
Proposed Response Response Status W	
PROPOSED REJECT. (applies to 95.8.5.2 in clean version)	
'Average optical power' is common terminology in many other clauses. Its given a symbol here for ease of use in equations and for notation of diagrams.	

C/ 95 SC 95.8.9	P <b>120</b>	L <b>20</b>	# r01-82		SC 95.8.9.1	P 120	L 36	# r01-84
Dawe, Piers J G	Mellanox Tech	nologie		Dawe, Piers J	G	Mellanox Tech	nnologie	
Comment Type E Comment	Status D			Comment Type	e T	Comment Status D		
conformance test signal, stressed re signal, conformance signal	ceiver conformar	nce signal, stres	ssed eye conformance		? Does it ca	e to use the Gaussian jitter tha ause pulse shrinkage jitter in th		
SuggestedRemedy Scrub the SRS section for consisten	t terminology			SuggestedRen	nedy			
	0,			?				
Proposed Response Response PROPOSED ACCEPT. (applies to 95.8.8 in clean version)	Status w				ED REJECT.	Response Status W		
This was discussed in the MMF ad h http://www.ieee802.org/3/bm/public/	,			No remedy		P 120	L <b>52</b>	# r01-85
see response to comment r01-17				Dawe, Piers J	G	Mellanox Tech	nnologie	
C/ 95 SC 95.8.9.1	P <b>120</b>	L 36	# r01-83	Comment Type	ə T	Comment Status D		
Dawe, Piers J G Comment Type <b>T</b> Comment	Mellanox Tech Status D	nologie		second on	e, which is p	response is specified as fourt ossibly more important, is not rshoot should be minimized.".		
The bandwidth of the Gaussian nois ambiguity should be removed.	e has a significar	nt effect on the p	oulse shrinkage. This	SuggestedRen		e second filter response as fou	uth-order Besse	el-Thomson
SuggestedRemedy				Proposed Res		Response Status W		
State whether the frequency content "white" noise generator), or not.	extends above t	he Nyquist freq	uency (could call it a	PROPOSE	ED REJECT.	,		
Proposed Response Response	Status W			(applies to	95.8.8.1 in o	clean version)		
PROPOSED REJECT. (applies to 95.8.8.1 in clean version)				It may be i		nd filter is defined by its effect in any way that contributes to CB trace.		
No specific remedy proposed.				•	-			

Cl 95 SC 95.8.9.2 P 122 L 7 # [r01-86	Cl 95 SC 95.8.9.2 P 122 L 23 # [ <u>r01-88</u>
Dawe, Piers J G Mellanox Technologie	Dawe, Piers J G Mellanox Technologie
Comment Type       TR       Comment Status       D         As in comment D3.0/48, 55, 57, 59, VECP is not a penalty. For a consistent standard, the SRS eye should be calibrated with a similar metric to the transmitter spec. This also has the significant advantage that TxVEC addresses measurement consistency with scope noise.         SuggestedRemedy	Comment Type       E       Comment Status       D         It would be easier to follow if these things were listed in the same order as they appear in Figure 95-5.       SuggestedRemedy         Change       sinusoidal interferers, sinusoidal jitter, and Gaussian noise generator
Revise Table 95-7, Table 95-10, 95.8.8.1 and 95.8.8.2 as in king_01_0814_rev2_mmf.pdf or successor, but see other comments for name of metric called TxVEC in that document, value for that metric, and setting of noise term M.	to sinusoidal jitter, sinusoidal interferers, and Gaussian noise generator Two instances.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.8.2 in clean version)	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.8.2 in clean version)
This was discussed in the MMF ad hoc, as documented in http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf	This was discussed in the MMF ad hoc, as documented in http://www.ieee802.org/3/bm/public/sep14/king_02_0914_optx.pdf
See also response to comment r01-17	See also response to comment r01-17
C/         95         SC         95.8.9.2         P         122         L         7         # [r01-87]           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie	C/         95         SC         95.8.9.2         P 122         L 26         # [r01-89]           Dawe, Piers J G         Mellanox Technologie
Comment Type       TR       Comment Status       D         Should the modified TxVEC used for SRS calibration have noise term M set to zero?       Setting it to zero is more realistic, not doing so is consistent with previous PMD specs and gives a clearer measure of signal stress.         SuggestedRemedy       Whatever is decided, check that the SRS OMA is consistent with the decision, remembering that TxVEC (even with M) does not contain quite all of the expected transmission penalty.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. (applies to 95.8.8.2 in clean version)       W	Comment Type       E       Comment Status       D       Buck         Non-printing character at the end of many of these indented paragraphs       SuggestedRemedy         Remove if practicable.       Remove if practicable.         Proposed Response       Response Status       W         PROPOSED ACCEPT.       (applies to 95.8.8.2 in clean version)

P <b>122</b>	L 28						
	L 20	# r01-90	C/ 95 SC 95	8.9.3	P <b>123</b>	L 16	# r01-92
Mellanox Techno	ologie		Dawe, Piers J G		Mellanox Tec	hnologie	
omment Status D			Comment Type	· c	omment Status D		
	C) doesn't se	em compatible with					
			SuggestedRemedy				
inusoidal interferers or Ga	aussian noise (	out of this list.				OMA (the maxin	num for a service
,							
-			Proposed Response	Re	sponse Status W		
,					version)		
P 122	L <b>30</b>	# r01-91	Subject to review	v of http://wv	ww.ieee802.org/3/bm/pt	ublic/sep14/dawe	e_02_0914_optx.pdf
Mellanox Techno	ologie		C/ 95 SC 95	8.9.4	P 123	L 29	# r01-93
omment Status D			Dawe, Piers J G		Mellanox Tec	hnologie	
e created with sinusoidal i	interferer 2 or	sinusoidal jitter.	Comment Type	с	omment Status D		Buck
ise.		idal jitter, sinusoidal	requirements; wi but it should be l	II is only use hypothetical	ed in statements of fact.	" The text conce	erned may be correct
sponse Status W			SuggestedRemedy				
						nal that does no	t" to "system would
ME ad bac, as documente	d in		Proposed Response	Re	sponse Status W		
				-	-		
ent r01-17			P802.3bm/D3.0	or the unsat	tisfied negative commer		
						ent to the draft th	at would otherwise
			Change "system	will recult in	n an input signal that do		
	nstraints. sinusoidal interferers or Ga esponse Status W RINCIPLE. version) 01-28 P 122 Mellanox Techno comment Status D be created with sinusoidal in be created with a combination bise. hings, consider deleting the esponse Status W RINCIPLE. version) IMF ad hoc, as documente	eye closure (VECP or TxVEC) doesn't see instraints. sinusoidal interferers or Gaussian noise of esponse Status W RINCIPLE. version) 01-28 P 122 L 30 Mellanox Technologie formment Status D be created with sinusoidal interferer 2 or sinusoidal be created with a combination of sinuso	eye closure (VECP or TxVEC) doesn't seem compatible with nstraints. sinusoidal interferers or Gaussian noise out of this list. esponse Status W RINCIPLE. version) D1-28 P122 L 30 # r01-91 Mellanox Technologie formment Status D be created with sinusoidal interferer 2 or sinusoidal jitter. be created with a combination of sinusoidal jitter, sinusoidal bise. hings, consider deleting the sentence. esponse Status W RINCIPLE. version) IMF ad hoc, as documented in h/public/sep14/king_02_0914_optx.pdf	<ul> <li>By closure (VECP or TxVEC) doesn't seem compatible with nstraints.</li> <li>B) 0 comments measurments, measurment</li></ul>	<ul> <li>By closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>B.3.0 comments 26 and 36 p measurments, more than for suggested Remedy</li> <li>State that jitter is defined as signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal) with 19 uW RMS score Review mask coordinates at signal with sinusoidal interferer 2 or sinusoidal jitter.</li> <li>be created with a combination of sinusoidal jitter, sinusoidal sise.</li> <li>bings, consider deleting the sentence.</li> <li>sesponse Status W</li> <li>RINCIPLE.</li> <li>version)</li> <li>MF ad hoc, as documented in n/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>MF ad hoc, as documented in n/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>Date and a signal with the scope of the recircle However, the changes sugg</li> </ul>	<ul> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>c) comment Status D</li> <li>c) P122 L 30 # r01-91</li> <li>c) Mellanox Technologie</li> <li>c) proposed Response Response Status W</li> <li>c) proposed Response Y P123</li> <li>c) Dawe, Piers J G</li> <li>c) Mellanox Technologie insponded jitter, sinusoidal jitter, sinusoidal pitter.</li> <li>c) propose Status W</li> <li>RINCIPLE.</li> <li>c) propose Status W</li> <li>RINCIPLE.</li> <li>version)</li> <li>MF ad hoc, as documented in r/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>MF ad hoc, as documented in r/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>MF ad hoc, as documented in r/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>MF ad hoc, as documented in r/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>MF ad hoc, as docume</li></ul>	<ul> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with instraints.</li> <li>by closure (VECP or TxVEC) doesn't seem compatible with sinusoidal jitter.</li> <li>c) proposed Response Compatible with sinusoidal jitter, version)</li> <li>MF ad hoc, as documented in n/public/sep14/king_02_0914_optx.pdf</li> <li>ent r01-17</li> <li>by close Response Closent and with result in an input signal that does not apply to the changes between IEEE P802.31 P802.35m/D3.0 or the unsatified negative comm</li></ul>

C/ 95 SC 95.8.9.5 Dawe, Piers J G	P <b>123</b> Mellanox Techr	L <b>42</b> nologie	# r01-94	C/ 83E SC 83E.5.4.1 RAN, ADEE	P <b>190</b> Intel Corporatio	L <b>48</b> n	# r01-96
Comment Type E In the clean version, the ta SuggestedRemedy Hold them together if prace	Comment Status D able footnote has become so sticable. Response Status W	Ū	Bucket	Comment Type T Item TH12 states a sing two eye height requiren 95 mV and 80 mV. SuggestedRemedy Change this item to refl	Comment Status <b>D</b> gle value of 95 mV, but the modenents, A and B, and table 83E- ect the new requirements. 2 as a subclause reference.	dified method i	
C/ 95 SC 95.8.9.5 Dawe, Piers J G Comment Type TR	P 123 Mellanox Techr Comment Status D	L <b>47</b> nologie	# r01-95	Proposed Response PROPOSED ACCEPT Modify TH12 to be Eye Add TH13 with feature	-	.1.6 and value	980 mV
	rers ("bounded" stress) caus 0.05 SJ causes bounded no r than realistic.						
	above 10 MHz from 0.05 U low frequencies, use the for		8				

Proposed Response Response Status W

PROPOSED REJECT.

This comment does not apply to the changes between IEEE P802.3bm/D3.1 and IEEE P802.3bm/D3.0 or the unsatisfied negative comments from the initial ballot. Hence it is not within the scope of the recirculation ballot.

The limit to SJ above 10MHz is consistent with other clauses. Allowing a range would build uncertainty into measurements.