CI 00 SC	Р	L	# 105	CI <b>00</b>	SC		Р	L	# 5
Dawe, Piers	Agilent			Gaither, Ju	ustin		Xilinx		
Comment Type E	Comment Status A			Comment	Туре Т	R	Comment Status D		
BERT is bit error RA	ATIO (most times) - see definitio	ns 1.5 or manufa	cturer's literature.	Loopb	ack support	(regist	ter 3.0.14) has been (I believe	mistakenly) re	moved in D3.3 for
SuggestedRemedy 6 times in clause 52 appendices.	2, change rate to ratio. Also clau	ses 30, 47, 49, 5	0, 53 or their	10GB explici subcla definit	ASE-X PCS t dependan use in claus ions in the l	Ce on 1 Se 48 s MMD r	is; only the 10GBASE-R MMD 10GBASE-R should be remove should be added. It will then alig egisters for DTE XGXS (5.0.14	d and a referre d and a refere gn with the rel and PHY X	ed to in this clause. The ence to the relevant ated register GXS (4.0.14)
Response	Response Status C			Suggested	Remedy				
ACCEPT IN PRINC BER, not BERT.	CIPLE. BERT remains BERT. V	Ve assume comr	nenter is referring to	Alter t The P	he first para	graph placed	of 45.2.3.1.2 to read: d in a loopback mode of operat	ion when bit 3	0.0.14 is set to a one.
C/ 00 SC	Р	L	# 124	it on th	ne receive p	ath. Th	he specific behavior of the 10G	BASE-R PCS	S during loopback is
Dawe, Piers	Agilent			specif	ed in Claus	e 49.2	, and the specific behaviour of	the 10GBASI	E-X PCS
Comment Type E Precise words for M	Comment Status <b>A</b> IDIO PICS varies			during 10Gb/ ignore	s, the PCS	specif loopba from t	ack functionality is not applicable this bit shall return a value of ze	ier port types ie and writes t ero.	o this bit shall be
SuggestedRemedy				Response			Response Status Z		
Chief editor please r	recommend			PROF	OSED REJ	ECT.	Loopback is performed in 10G	BASE-X PMA	, not in the PCS.
Response	Response Status C			C/ 00	SC 52		Р	L	# 94
ACCEPT IN PRINC	CIPLE. All MMD-capable clause	es will list MDIO	capabilities in the PICS	Dawe, Pie	rs		Agilent		
Item = MD	inities/options. The table entry w	nii be specilled a	5.	Comment	Туре Е		Comment Status R		
Feature = MDIO Subclause = <applic< td=""><td>cable to each clause&gt;</td><td></td><td></td><td>Ludicr don't r</td><td>ous hyphen need to.</td><td>ations.</td><td>Some of these words could b</td><td>e hyphenated</td><td>(differently) but you</td></applic<>	cable to each clause>			Ludicr don't r	ous hyphen need to.	ations.	Some of these words could b	e hyphenated	(differently) but you
Status = O	Registers and interface supported			Suggestee	Remedy				
Support = Yes [ ], N	lo []			Remo specif	ve the follow ca-tions mo	ving fro odula-t	om hyphenation dictionary: im tion tech-niques jit-ter hap-pe	plementa-tion n pat-tern in	n sig-nals sta-tus ter-val extinc-tion
	sioned for the required format.			Response		CIU	Response Status C	c tions singi	6
Clause 48 and 52 ne	eed to add this entry.			REJE	CT.				
				Withd	rawn by con	nmente	er.		

CI 45	SC 45.4.1	P 238	L 32	# 2	C/ 45 S	C Table	45	45-28	45-28 P 190	<b>45-28</b> P <b>190</b> L
Furner, Ed		Lattice Semio	conductor		Dawe, Piers				Agilent	Agilent
Comment	Туре Т	Comment Status A			Comment Type	E		Comme	Comment Status A	Comment Status A
Since	positive currents a	re defined to flow into the cir	cuit, IOH current	s are normally	Table 45-1	1 is spread o	over	two pag	two pages	two pages
MAXIN minim EC7 a on VI, found i	/UM value of -4m um value of -4m/ nd EC8 values in VIH and VIL in tat in device specifica	A. Likewise, the IOL specifica A. (At 0.2V for consistency wi table 45.5.5.14 should be ad ble 45-62 on lines 36 - 40 at p titions, where requirements a	ation on line 48 s th the VOL speci justed according page 238 are all i re put on the input	hould have a fication range.) The y. The specifications n the format normally it signals to the	SuggestedRen Make the r on the page Response	<i>nedy</i> ight hand co e	lumn m Res	nuch spon:	nuch wider and with a mi	nuch wider and with a minimum of form
device	. In table 45-62 ho	wever the object is to have s	pecifications on l	MDIO receivers, not	ACCEPT.					
from the definiti	ne present specific ons of VIH and VI	ations would probably be to L:	remove the VI sp	ec and reword the	C/ <b>45</b> S Dawe, Piers	SC Table 45	-28		P <b>205</b> Agilent	P 205 L 38 Agilent
VIH H mu VIL R mu	cange of input vol ist be interpreted a cange of input volt ist be interpreted a	ages that 0.84V as a logic 1. ages that -0.3V as a logic 0.	1.5V 0.36V		Comment Type Table 45-2	e E 8 formatting	Com	าทะ	nment Status A	iment Status A
Suggested	Remedy				Suggestearren Make the r	neay ight hand co	lumn m	uch	uch wider	uch wider
Chang Remov Chang Chang	e IOH to -4mA M, /e VI line. e VIH to 0.84V (M e VIL to -0.3V (M	AX, change IOL to +4mA MI IIN), 1.5V (MAX) N). 0.36V (MAX)	N (@0.2V), upda	te EC7, EC8.	Response ACCEPT.		Resp	on	onse Status C	onse Status C
Response ACCE	PT.	Response Status C			Cl <b>45</b> S Dawe, Piers	C Table 45	-49		P 225 Agilent	P 225 L 11 Agilent
Cl 45	SC Table 45-	11 P 205	L 38	# 132	Comment Type Table 45-4	e E 9 formatting	Comm	e	ent Status A	ent Status A
Comment	S Type E	Comment Status A			SuggestedRen Make the t	<i>nedy</i> able full widt	h, make the	3	• "Name" and "Desc	"Name" and "Description" column
Suggested	HS-28 formatting	ımn much wider			Response ACCEPT.		Respo	n	nse Status C	nse Status C
Response ACCE	PT.	Response Status C								

1 002.000 Drait 0.0 0011110110
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C/ <b>46</b>	SC 46.1.6	P <b>264</b>	L <b>47</b>	# 90	C/ 46	SC 46.3.4.3	P <b>277</b>	L <b>49</b>	# 93
Robert Gro	w	Intel			Foulds, Chr	ris	Intel		
Comment 7	Туре Е	Comment Status A			Comment 7	Гуре Т	Comment Status A		
Loopba XGMII	ack is a popular fe is possible.	eature, and there has been sor	ne confusion if l	popback at the	Conditi column	on (b) is not cor is, the link_fault	rect. If a fault_sequence is not variable will actually be cleared	received within	a period of 128
Suggested	Remedy				Suggestedl	Remedy			
Add a r connec to RXD TXCLK nor any	note to 46.1.6"No cted to receive sig 0<0> TXD<31> ( to RXCLK. Suc ) of the error hand	te XGMII signals are specifi gnals to create a loopback path to RXD<31>, TXC<0> to RX h a loopback does not test the dling functions of the receive F	ed such that trai n. To do this, T> C<0> TXC<3 Link Fault Sign RS."	nsmit signals may be (D<0> is connected > to RXC<3>, and aling state machine,	1. Leav 2. Char b) With 3. Add c) With	re condition (a) the condition (b) to the condition (b) to the condition (c) where the conditity (c) where the condition (c) where the condition (c) w	he same. ) to the following: hing fault_sequences of a different hich says the following: hing period of 128 columns not	ent value, and containing a fau	lt_sequence
Response ACCEI	PT.	Response Status C			Response ACCEF	PT IN PRINCIP	Response Status <b>C</b> LE.		
CI 46	SC 46.3.4.2	P 276	L 30	# 37	Replac	e lettered list wi	th:		
Tim Warlar	nd	Quake Techno	ologies				and a later than a second facility of the		Second and the second second second
Comment T In the s	<i>Type</i> <b>E</b> subclause title, the	Comment Status <b>A</b> e word Variables is mis-spelle	d		fault se of a diff	equences separa ferent fault value	ated by less than 128 columns a a.	and no interveni	ng fault_sequences
Suggested	Remedy				[Make g	grammar match	with preceding paragraph.]		
Change	e Varibles to Vari	ables			CI 46	SC 46 4	P 279	/ 37	# 6
Response		Response Status C			Gaither, Jus	stin	Xilinx	207	<i>"</i>
ACCEI	PT.				Comment T	Type TR	Comment Status A		
C/ <b>46</b> Robert Gro	SC <b>46.3.4.3</b>	P <b>277</b> Intel	L <b>39</b>	# 91	The set the XG	tup and hold tim MII clocks	e requirements do not properly	constraint duty	cycle variations of
Commont	 Tune <b>E</b>	Comment Status			Suggestedl	Remedy			
Missing	a exit term from s				Specifi	y a 40/60 % dut	y cyle requirement for the TX_0	CLK and RX_CL	K in Figure 46-12.
Suggested	Romody				Response		Response Status C		
Restor	e exit condition of	UCT from state NEW_FAU	T TYPF		ACCEF	PT IN PRINCIP	LE.		
Pesnonso		Response Status	<b>_</b>		Add line	es to Figure 46-	12 to both high and low clock p min	eriods from activ	ve threshold of
ACCEI	PT.				Add to tpwmin	imbeded table a with a value of	a row consisting of 2.5ns at the driver		

Cl <b>46</b>	SC Figure 46.9	P 277	L 842	# 92
Foulds, C	hris	Intel		

Comment Type T Comment Status R

The Link Fault Signaling State Machine is not complete. The main problem is that there is no transition for the condition where a fault sequence is not received (!fault\_sequence) and col\_cnt is  $\leq 127$ .

#### SuggestedRemedy

Add if-else conditions to COUNT and FAULT states for incrementing col\_cnt or seq\_cnt. Add transition conditions for !fault\_seq\*col\_cnt<128.See included file showing proposed state diagram.

#### Response

#### Response Status C

REJECT. Column count is defined as incrementing continously unless reset, so no change is required to increment the counter.

CI <b>47</b>	SC 47.3.3.4	P <b>336</b>	L 34	# 99007
Baumer, I	Howard	Broadcom Corp.		

Comment Status A

Comment Type TR

XAUI (D3.1) NC - Done

Differential return loss specified as as a flat responce of 10dB from 100MHz to 2.5GHz is unrealistic and cannot be met with pratical and reasonable designs and packages. Also the common mode return loss specifications exculdes pure differential designs, that is a pure 100ohm differential termination will have a 0dB common mode return loss but is a preferable design since it keeps all currents in the signal lines.

### SuggestedRemedy

Specify the driver output differential return loss with a nonflat response and remove the common mode return loss requirement. New description to read: "Driver output impedance shall result in a differential return loss better than 10dB from 100MHz to 781.25MHz and reduce 20dB per decade from 781.25MHz to 2.5GHz". The last sentence in this paragraph will then need to read: "The reference impedance for differential return loss measurements is 100ohms." Table 47-1 in subclause 47.3.3 on page 334 will need to be updated with these redefined return loss specifications.

Response Response Status C

ACCEPT IN PRINCIPLE. Resolution reached during the formal Clause 47 comment review session was to recognize the problem and accept the suggested remedy as an interim solution. A phone call to the commenter discussing the suggested remedy indicated that a preferrable remedy was to instead specify a driver output differential return loss with a flat response of 5.5 dB but that this was not optimized either. Additional subsequent discussion between multiple parties indicated a preferrable solution as follows. The preferrable solution is also illustrated in a graph in the Clause 47 status report:

Specify the driver output differential return loss with a nonflat response and remove the common mode return loss requirement. New description to read: "Driver output impedance shall result in a differential return loss better than 10dB from 100MHz to 781.25MHz, reduce 20dB per decade from 781.25MHz to 3.5GHz and 20dB per decade from 3.5GHz on". The last sentence in this paragraph reads: "The reference impedance for differential return loss measurements is 100ohms." Table 47-1 in subclause 47.3.3 is updated to reflect the new return loss specifications. PICS item E4 in 47.6.4.3 is updated to reflect the new return loss specifications.

C/ <b>47</b>	SC <b>47.3.3.4</b>	P3	36	L 34	#	3
Comment Ty	/pe <b>TR</b> t comment #9900	Comment Status	Α			Done
SuggestedR Follow th	Remedy he remedy in #99	007				
Response ACCEP	Т.	Response Status	С			

C/ 47	SC 47.3.3.6	P 339	L 3839	# 99008
Baumer, How	ard	Broadcom Corp.		
Comment Typ	be TR	Comment Status R		XAUI (D3.1) NC - Done

The current transmit jitter specification allows for the near end random jitter to be has high as 8ps rms and the far end random jitter to be has high as 12.6ps rms. (Since the specification allows Dj=0 and Rj=Tj-Dj(actual) Rj can then equal Tj. For near end Rj=0.35UI=112ps pk-pk which is 8ps rms {112/14}. For the far end Rj=0.55UI=176ps pk-pk which is 12.6ps rms.) This puts an undue burdon on the Receiver to be able to handle this large pure random jitter. A maximum random jitter should be specified.

#### SuggestedRemedy

Add a maximum random jitter specification that is not based on the determinstic jitter and add the constraint that the sum of the Rj & Dj has to be less than the Tj.Second to last sentence (lines 38-39) modified to read: "The maximum peak to peak random jitter, defined as 14 \* rms random jitter, shall be less than 0.22UI. The sum of the measured deterministic and measured peak to peak random jitter shall be less than the total jitter". Table 47-1 in subclause 47.3.3 on page 334 will need to be updated with the maximum random jitter.

Response

#### Response Status U

REJECT. The working group desires further investigation of an appropriate RJ limit. The editor asks that the commentor determine an RJ limit acceptable to the working group and then resubmitted this comment.

As of November 15, 2001, the commenter has provided no new information during the last 5 months justifying a need for a change, and the committee is satisfied with the current specifications.

C/ <b>47</b>	SC 4	7.3.4.5	P 3	42	L 2937	# 99009		
Baumer, How	vard		Broad	com Corp.				
Comment Ty	фe	TR	Comment Status	R		XAUI (D3.1) NC - Done		
There is no specific random jitter specified for the receiver jitter tolerance. This results in the same problem illustrated in my comment #99008.								
SuggestedR	emedy	/						

Add the following sentance to subclause 47.3.4.5 between the sentence on specifying Dj and the sentence specifyint Tj: "The maximum peak to peak random jitter, defined as 14 \* rms random jitter, shall be less than 0.22UI."

Response Status U

Response

REJECT. See response to #99008.

C/ <b>47</b>	SC 47.4.3	P <b>295</b>	L <b>24</b>	# 48	
Tim Warla	nd	Quake Technolog	aies		

Comment Type T

The CJPAT pattern is described as a transmit function but it is unclear that it is necessary to include the CJPAT generation function"

Comment Status R

#### SuggestedRemedy

Change the text to either indicate the mandatory requirement to generate CJPAT or explicitly indicate that CJPAT is optional. Text could read:"The data pattern for jitter measurements is the CJPAT pattern as defined in Annex 48A. The CJPAT generator shall be implemented in the XAUI transmit function" or "The XAUI transmit function may optionally be implemented in the XAUI transmit function."

### Response Response Status Z

REJECT. Clarification is included in Annex 48A wording, first paragraph: "The patterns may be implemented at a bit, code-group or frame level.....". In addition, CJPAT is defined as a "data pattern in 47.4.3 and not as a (XAUI) transmit function.

CI 47	SC 4	7.4.3	P <b>2</b>	95	L <b>25</b>	# 8
Lindsay, Tom			Strato	s Lightwave		
Comment Ty	be	Е	Comment Status	Α		Done
Clarify w	nat is l	being me	easured.			

### SuggestedRemedy

Modify last sentence of paragraph to read "Jitter measurement for the transmitter (or for calibration of a jitter tolerance setup) shall be performed...

Response ACCE	PT.	Response Status C	;		
CI 47	SC 47.4.3	P 295	L 27	# 49	
Tim Warla	ind	Quake	<b>Fechnologies</b>		
Comment	Туре Т	Comment Status F	2		Done
There	is currently no re	quirement for a XALII req	eiver to accent the X	ALLI C. IPAT and to	

report errors. The detection of errors would facilitate BER calculations but should not necessarily be a compliance requirement

#### SuggestedRemedy

Two options: Firstly the text could indicate the option not to detect and report errors on the CJPAT. Second option: The text could indicate that the receiver shall monitor and report 10b/8b coding violations in order to accumulate BER statistics data. In either case, the function of the receiver in CJPAT mode must be defined.

### Response Response Status Z

REJECT. Agree with the comment. However, BER monitoring is not a compliance requirement for XAUI.

Done

CI 47	SC 47.4.3.2	P <b>295</b>	L 38	# 9		C/ 48A	SC 4	48A.3	P 332	L <b>3</b>	# 11
Lindsay, To	m	Stratos Lightwo	ave			Lindsay, To	m		Stratos Lightwa	ave	
Comment 7 With ou general	<i>Type</i> <b>E</b> ur definition of jitte Ily not possible, s	Comment Status A er, hugging the eye template c o a better description is requir	on all 6 sides and ed.	D d all 6 corners is	Done	Comment 7 Clarify Suggested	<i>ype</i> what pa Remedu	E attern is go	Comment Status A nod for.		
Suggested	Remedy					Add to	end of ?	1st senten	ceand deterministic jitter du	ue to high freq	uency ISI.
and a at least	adjusting the amp 2 of the A1/X2 p	litude until the data eye contac pints of the driver's far-end eye	ts at least one o template	of the X1 points and		Response	<b>.</b>		Response Status C		
Response		Response Status C				ACCEF	<b>'</b> 1.				
ACCEF by first and the	PT IN PRINCIPLE producing the rec on adjusting the si	E. Rewrote the target sentence quired sum of deterministic an gnal amplitude until the data e	e as follows: "Th d random jitter o eye contacts at le	his signal is obtained defined in 47.3.4.6 east one of the X1		C/ <b>48B</b> Lindsay, To	SC 4 m	48B.1	P 335 Stratos Lightwa	L ave	# 22
Figure	47-4 and Table	47–2."	tar-end eye terr	iplate snown in		Comment 7 Need to	<i>ype</i> clarify	E scope of .	Comment Status <b>A</b> Annex. Add 2nd paragraph.		
CI 47	SC 47.6.4.3	P <b>298</b>	L 18	# 10		Suggested	Remedy	/			
Comment T Why is stateme Suggested	Type E this line here? Al ent in paragraph Remedy	Comment Status <b>R</b> I jitter requirements are alread 47.4.3 regarding HOW jitter is	y listed, and this measured.	D s only points to a	Done	describ these m <i>Response</i> ACCEF	ed in th nethods PT. Wil	is Annex a individua I add right	are written for testing of a sing lly or concurrently. <i>Response Status</i> <b>C</b> before 48B.1.	le lane. Each	lane can be tested with
Delete	E15.					C/ 48B	SC 4	48B.1.1	Р	L	# 23
Response		Response Status C				Lindsay, To	m		Stratos Lightwa	ave	
REJEC	CT. This PICS en rement compliand	try is required to go along with ce requirement in 47.4.3 per re	the correspond solution of D3.2	ling jitter comment 56.		Comment 7 Clarify	<i>ype</i> value of	<b>E</b> f BER sca	Comment Status A		
Cl <b>48</b> Gaither, Jus	SC <b>48.2.5</b> stin	P 311 Xilinx	L <b>50</b>	# 4		Suggested/ Modify	Remedy 1st sent	/ tence "w	vithin a data eye is not only the	e fundamental	indicator of signal
This lin	e refers to a time	less state that does not exist a	ny more.			Response	11 13 4 1	2102010	Response Status <b>C</b>		
Suggested Remov	<i>Remedy</i> re this and anyoth	er reference to Q_DET_IDLE	state			ACCEF	PT. Wil	l add to 48	BB.1.		
Response ACCEF	PT.	Response Status C									

C/ 48B	SC 48B.1.3	P 337	L	# 24	C/ 48B	SC 48B.1.6	P 338	L 36	# 28	
Lindsay, To	m	Stratos Lightwa	ve		Lindsay, To	m	Stratos Lightw	ave		
Comment T	ype E	Comment Status A			Comment	Туре Е	Comment Status A			
Section	needs clarification	on and can be combined with 4	8B.1.5.		Too res	strictive.				
Suggested	Remedy				Suggested	Remedy				
a. Modi insuffici	fy the 2nd paragr ent as the measu	raph of subclause 48B.1.3, pag urement of DJ. An overall weigh	e 337, to read	"Simple pk-pk is hat captures not only	Remov toleran	iltering is also	used to calibrate jitter			
the pk-p "effectiv Dirac fu	ve DJ". For purpo unction, where it i	ape of the density function is rooses of simplicity, effective DJ is assumed that the DJ PDF is	equired. This m n this standard comprised of a	hay be known as I is based on the dual- I pair of delta	Response ACCEI	PT.	Response Status C	C		
"All refe b. Delet	erences to DJ in ( te subclause 48B	Continue to end of paragraph. Clauses 47 and 53 should be u 8.1.5, page 338.	I nen, comple nderstood as e	ffective DJ."	C/ <b>48B</b> Lindsay, To	SC <b>48B.2</b>	P 338 Stratos Lightv	L /ave	# 29	
c. In the exampl paragra	e of effective DJ aph to "two Gau	is duty cycle distortion. Concludision functions, one centered a	, modify the 1s de the last sent at each of the t	ence of the wo delta functions."	Comment 7 "Jittere	<i>Type</i> <b>E</b> d" is technically	Comment Status A preferred over "jittery".			
Response		Response Status C			Suggested	Remedy				
ACCEF	РТ.				Search	and replace "jit	tery" with "jittered" in this subc	ause.		
Cl <b>48B</b> Lindsay, To	SC <b>48B.1.4</b> m	P <b>338</b> Stratos Lightwa	L <b>2</b> ve	# 26	Response ACCEI	PT.	Response Status <b>C</b>			
Comment T	vpe E	Comment Status A								
There is	s insufficient guid	ance on how to determine the	Q values.							
Suggested	Remedy									
Modify e.g., Q= assume of TD=( little cor roundin	the line to read ". =3.94 for BER=10 ed to be 0.5.Also, 0.5 instead of 0.6 nservative by mo g off. Therefore,	cumulative probability distribu 0^-5, and Q=5.77 for BER=10^ in line 17, the multiplier for RJ . Rather than calculate a new e ving closer to the value of 14 th change the value to 13.8 instea	tion, adjusted f -9, where trans will change du xact value, I w at folks are use ad of 13.73. Eit	or transition density, sition density is to the assumption ould suggest being a ed to using and ther is close enough.						
Response		Response Status C								
ACCEF	РТ.									
C/ 48B	SC 48B.1.4	P 338	L <b>21</b>	# 25						
Lindsay, To	m	Stratos Lightwa	ve							
Comment T	ype E	Comment Status A								
Statem reason	ent requires max why 1E-5 is not a	value of 1E-6, yet all examples appropriate.	use 1E-5. The	ere is no technical						
Suggested	Remedy									
Change	e value to 1E-5.									
Response ACCEF	РТ.	Response Status C								

C/ 48B SC 48	B.2.1	P <b>339</b>	L	# 31	C/ 48B	SC	48B.3.1	P 340	L 17	# 32
Lindsay, Tom		Stratos Lightw	ave		Lindsay, T	om		Stratos Lightway	ve .	
Comment Type E	E Comm	ent Status A			Comment	Туре	Е	Comment Status A		
General clean-up	).				Remo	ve unne	ecessary an	d conflicting words.		
SuggestedRemedy					Suggested	Reme	dy			
1. Figure 48B-3. above the spiral. 2. Line 29. Use " 3. Line 32. Modif	The DDJ source Also, remove the SJ" instead of "S y to "modulation	should be labeled. / gap between the sp INE". n from 10 Hz to 20 I	Add "Long cable biral and the stra MHz." 5 MHz SJ	or filter for DDJ" ight cable. frequency range is	1. Del stated 2. Del it conf	ete the , but is ete the licts wit	1st sentenc a general co last paragra h the sectio	e of this paragraph. It is not re oncept. ph of this paragraph. It is not c n on BERT scan curve fitting.	er to a specifi	ic technique as labeled figured, and
wrong (see claus 4. Line 32. Modif confusing and no	e 47). y to "with a ban it needed.	dwidth greater than	500 MHz." A sp	ecific range is	Response ACCE	PT IN I	PRINCIPLE	Response Status <b>C</b> . Will use editorial license to r	nake changes	5.
5. Line 33. Start a the 1st sentence	a new paragrapn of the following p	at "Amplitude calibr aragraph, Remove (	ation" Combin comma after "all	le this sentence with lowing".	C/ 48B	SC	48B.3.1.1	P 340	L	# 33
6. Line 38. Remo	ve sentence. It is	s understood and do	es not fit in here		Lindsay, T	om		Stratos Lightway	ve	
7. Line 39. The s	entence starting	with "If the clock"	should be modif	ied to say "If the	Comment	Type	F	Comment Status A		
should be its own	paragraph.8.1 ir	the system under te ne 45. Replace "Wh	st nas a corner i ere" with "lf".	requency". The	Gener	al clear				
9. Line 46. Modify	y to "care shoul	d be taken to calibra	ate and test with	a balun to			1 up.			
convert". Note	spelling of balun.				Suggested	Remed	dy 			
10. Line 47. Shou 11. Line 49. Rem 12. Line 53. Add suggestion of ten that is required a 13. Line 36. Modi	Id be "used du ove "calibrating" to the end of the nporarily substitut s part of the spec ify to "the RJ pc	e to the possibility o from the note. note "Note - this foc ting SJ for RJ during iffications. ortion may be tempo	f asymmetric" otnote is not refe g amplitude calit grarily replaced w	rring to the pration, but to the SJ vith an equivalent".	1. Line 2. Line 3. Line out in 4. Line better	e 32. M e 33. R e 34. R the spe e 33. D elsewh	odify to "the eplace "scope emove the la cifications. elete the ser ere in this A	he sampling scope or clock the be" with "instrument" so that bo ast 2 sentences. This topic is m ntence "The golden PLL". Th nnex.	BERT." oth scope and lore complete is topic is red	BERT are included. ly and clearly spelled undant and described
Temporarily is ac	ded because RJ	should be used dur	ing the actual te	st.	Response			Response Status C		
15. Line 54. Mod 15. Line 42. This	paragraph must	be strengthened. Tr	y "When calibra	ting the jitter	ACCE	PT IN I	PRINCIPLE	. Will use editorial license to	make change	es.
tolerance test set understood and i	up, the effects of ncluded per the s	high pass filtering in specifications. Per s	n the time/jitter o ubclause 48B.1.	domain must be 6. high pass filtering	C/ 48B	SC	48B.3.1.2	P 340	L	# 35
can have profour	nd effects on patte	ern dependendent ji	tter (it will increa	ase measured DJ with	Lindsay, T	om		Stratos Lightway	ve	
patterns such as	CJPAT) and also	track out jitter belo	w the specified	corner frequency."	Commont	Tuno	F	Commont Status		
16. Line 48. Insel	t another paragra	aph "After complete,	calibration mus	t be verified using	Continuent					
specifications are	e met."	ט מווע וופומופט מייסי. מווע וופומופט מי			Gener	ai cieal	ι-up.			
Response	Recoor	neo Status C			Suggested	Reme	dy			
ACCEPT IN PRI	NCIPLE. Will us	e editorial license to	make changes		1. Line filterin	e 51. De g or Go	elete this pa Iden PLL.	ragraph. It is conflicting with th	ie presumed u	usage of high-pass

2. Page 341, line 2. Rewrite the 2nd sentence as "It is not possible to capture the full extent of random jitter's peak to peak value due to the low sampling rate." Delete the rest of the paragraph.

### Response Response Status C

ACCEPT IN PRINCIPLE. Will use editorial license to make changes.

C/ <b>48B</b>	SC 48B.3.1.3	P 341	L	# 36	Cl <b>50</b>	SC 3.	.2.2	P 383	L <b>53</b>	# 150		
Lindsay, To	m	Stratos Lightv	vave		Bottorff, P	aul		Nortel Networks	6			
Comment T	ype E	Comment Status A			Comment	Туре	т	Comment Status R	Dupli	cate, see comment #151		
Genera	l clean-up.				The K	1 and K2	values s	should be set to 0 to represent a	null channel.			
Suggested	Remedy				Suggestee	Remedy						
1. Line separat 2. Line 3. Line	10. Delete the 1s e the DJ compor 13. Add to end of 12. Modify line to	t paragraph. It is not clear an ent. <sup>5</sup> sentence "long test times "As implied by the jitter moc	d conflicts with due to the inher lel described in	the requirement to ent high sampling rate. subclause 48B.1, a	Replace: "The K1 octet shall be set to 00000001 by the Transmit process. In addition, bits 1 to 5 inclusive of the K2 octet shall be set to 00010 binary."With: "The K1 octet shall be set to 00000000 by the Transmit process. In addition, bits 1 to 5 inclusive of the K2 octet shall be set to 0000000 binary."							
docume	ent.	in provide random and An	inex A is in the i	-ibre Channel jiller	Response			Response Status C				
4. Move	e the entire subcl	ause 48B.1.4 from pages 337	7-338 to become	e an indented	REJE	CT.						
subclau Response	ıse (48B.3.1.3.1)	Response Status C			The s	uggested	remedy i	is already covered by comment	#151.			
ACCEF	PT IN PRINCIPI F	Will use editorial license t	to make change	S.	C/ 50	SC 5	0.3.2	P 382	L <b>20</b>	# 38		
			g-		Tim Warla	nd		Quake Technol	ogies			
C/ 48B	SC 48B.3.2	P 341	L 17	# <u>3</u> 4	Comment	Type	Е	Comment Status R				
Lindsay, To	m	Stratos Lightv	vave		The footnote could be made more clear for implementation if the following text was added							
Comment T Missing	<i>ӯре</i> Е ј.	Comment Status A			to the are inc	last sente dicatedas	ence suc blank bo	h that it reads"Octets that are un oxes in this figure and are set to	ndefined and u 00hex. The S1	nused by the WIS byte(which you will		
SuggestedF Add mis	R <i>emedy</i> ssing text or dele	te section.			have i showr implei	o shade) hatchedi nentors a	shown s s set to ( nd teste	haded are set to 0⊦hex. I he 20 ( CChex." These changes will ma rs.	byte (which you ake the tables e	i will have to hatch) asyto read for		
Response		Response Status <b>C</b>			Suggestee	Remedy						
ACCEF		E. Will add missing text with	h editorial licens	e.	Implei	ment char	nge state	ed above				
<i>CI</i> <b>50</b> Tom Alexan	SC	P	L	# 50001	Response REJE	CT.		Response Status C				
Comment T	vpe F	Comment Status		In D3 4	Provid	ling actua	l values	for the Z0 and S1 octets duplication	ates the entries	in Tables 50-2 and		
Change	e all instances of nt.	"Bit Error Rate" to "Bit Error I	Ratio" as require	ed by clause 00	50-3. mistal	Unnecess kes and co	ary dupl	lication should be discouraged, . There is no need to specify any tro already well encoified in a tab	as it leads to un y numeric value	nnecessary risk of es in a note attached		
Suaaested	Remedv				to a n		i illese a	ire aiready well specified in a lac		Jaye.		
See cor	nment.				Also, I	no change	es were r	made to the figure in D3.3 (the c	changebar is a l	FrameMaker		
Response		Response Status C			artifac	t). The co	mmente	er can submit this during sponso	or dallot.			
ACCEF	ΥТ.	•			Incide comm comm	ntally, not ent, but ir ents #38	e that th nstead by and #39	e Z0 and S1 bytes are not prese y the next figure. There is possil	ent in the figure bly some confu	referenced by the sion between		

Cl 50	SC 50.3.2	P 382	L <b>40</b>	# 39	CI 50	SC	50.3.8.1	P <b>391</b>	L <b>3</b>	# 40
Tim Warla	and	Quake Techn	ologies		Tim Warla	nd		Quake Techno	logies	
Comment	Туре Е	Comment Status R			Comment	Туре	т	Comment Status A		In D:
The for to the	potnote could be r last sentence suc	nade more clear for implemen ch that it reads"Octets that are	tation if the follow undefined and u	ring text was added nused by the WIS	Chang not to	je from be inclu	: "Transmit uded in the	t process shall be"to: "Transm PICS.	nit process mus	st be"Since this is
are in	dicatedas diank d	oxes in this figure and shall be	e set to uunex."		Suggested	Reme	dy			
Suggeste	dRemedy				See co	ommen	t text			
Imple	ment change state	ed above			Response			Response Status C		
Response	<del>)</del>	Response Status C			ACCE	PT IN	PRINCIPLE	Ε.		
REJE	CT.				Chanc	ıe "shal	l he" to "is"	Delete PICS item TP2 Line (	) Page 406 R	enumber
See r	esponse to comm	ent #38.							, 1 age 400. IX	
A c wi	th commont #28	the stimulation of the values fo	r the unused act	te already occure in	C/ 50	SC	50.3.8.1	P 391	L <b>4</b>	# 136
the te	xt, and hence wo	uld be duplicated in the figure	caption. Unneces	sary duplication	Dawe, Ple	ſS		Aglient		
shoul	d be discouraged,	as it leads to unnecessary ris	k of mistakes an	d confusion.	Comment	Туре	т	Comment Status A		In D:
Also, artifac	no changes were ct). The comment	FrameMaker	the square wave isst pattern is out of line with EAN THY, and need to be so. Remember that the square wave is emitted by compliant hardware for clause 52 PMD test purposes but not received by anything in the standard. (In any case, surely "The most significant bit of this pattern shall form the most-significant bit of the 16-bit data-group sent to the PMA with the							
C/ 50	SC 50.3.2.2	P 383	L 5354	# 151	patterr other b	n shall f bits in c	orm the mo	ost-significant bit of the 16-bit of ng sequence." is redundant. V	data-group sen Vho can tell?)	it to the PMA, with the
Alexander	, Thomas	PMC-Sierra,	Inc.		Suggested	Reme	dv			
Comment	Type <b>T</b>	Comment Status A		In D3.4	Chanc	ie first s	sentence to	: "In the square-wave test patt	ern mode, the	WIS Transmit
This c to Col comm Overh Speci	comment is being mment #606 agai nent related to the nead, and stated to fically, these value	submitted by the Clause 50 E nst D3.2 of Clause 50, made b values set for the APS portior hat these values diverged fron es should have been set to all-	ditor as part of th by Juergen Rahn. Is of the K1 and I In normal industry zeros.As there w	e required resolution The original K2 bytes of the Line -standard practice. as some	proces as def Interfa TP4. allowe	ss shall ined in ce." D T d in D3	be disabled 52.9.1 shal elete the se his change 3.3.	d or otherwise prevented from Il be continuously transferred to econd sentence. Delete the no is backwards compatible with	processing dat the PMA via t te. Revise PIC D3.3: nothing	ta, and a square wave the PMA Service CS TP3, delete is excluded which is
disagi	reement at the tim	e, the committee directed the	interested parties	s to consult with	Response			Response Status C		
been	made, and a cons	sensus was reached. The gene	ral consensus is	that these values	ACCE	PT IN	PRINCIPLE	E.		
shoul editor K1/K2	d be set, as per th of T1.105.2 that 2 bytes therefore a	e original comment, to all-zero the WIS represents a working are don't-cares. As per SONE	os. It was further (not protection) of T/SDH requirement	pointed out by the hannel, and the ents, don't-care fields	This cl only o	hange s ne squa	seems reas are-wave jit	sonable. Further, it avoids unnet ter pattern is necessary for mu	ecessary inven Iti-mode PHYs	tion and ensures that S.
shoul	d be set to all-zero	os. The values in Clause 50 sh	buid hence be m	Daified to match.	The ed	ditor is	given licens	se to wordsmith the proposed t	ext and any as	sociated PICS entries
Suggeste	dRemedy				withou	t chang	ging the tec	chnical content of the suggester	d remedy, as w	vell as to take into
Chan 53 of the K	ge the value spec page 383, from 0 2 octet, as specifie	ified for the K1 octet of the Tra 0000001 to 00000000. Change ed on line 54 of page 383, fror	ansmit process, a e the value for bit n 00010 to 00000	s specified on line s 1 to 5 inclusive of ).	accoul	ni trie Ir	inpact of CO	лппенt #40.		
Response	9	Response Status C								

ACCEPT.

C/ 50 SC	50.3.8.2	P 392	L <b>1</b>	# 41	C/ 50	SC 50.3.8.2.	1 P 392	L 16	# 44	
I im Warland		Quake Techno	ologies		i im Waria	nd	Quake I	echnologies		
Comment Type	T C	omment Status R			Comment	Туре Т	Comment Status R	R		
Change the te	xt in the opening	g line to remove the shal			Remo	ve the shall stater	ment			
SuggestedRemed	ly	<b>.</b>			Suggested	Remedy				
Change from ' Synchronization	Receive and on processes fu	Synchronization process inction"	es shall function	"to " Receive and	Chang PRBS	e the line from ". generator is plac	the PRBS generator o ced directly"	utput shall be placed	directly"to " the	
Response REJECT	Re	sponse Status C			Response RE IEI	ст	Response Status C	;		
RESECT.					ILUE V	51.				
Sentence is pe one.	erfectly fine as i	t stands. Besides, there	isn't even a cha	nge bar next to this	The S first ha	HALL in this sent If of the SPE, an	tence relates to the fact the inverted in the second	hat the PRBS output half of the SPE. This promoval of the SH	is used as-is in the s is presently a	
CI 50 SC	50.3.8.2	P <b>392</b>	L <b>2</b>	# 42	require	ement. There is a	a PICS item associated w	rith this requirement.		
Tim Warland		Quake Techno	ologies		C/ 50	SC 50 3 8 2	1 P392	/ 18	# 45	
Comment Type	T C	omment Status R			Tim Warla	nd	Quake T	Technologies	<i>"</i> <del>-</del>	
Remove the sl	hall statement				Comment	Type <b>T</b>	Comment Status	,		
SuggestedRemed	ly				Remo	ve the shall state	ment			
change line fro error propagat	om "and erro tion as per 50.3	r propagation as per 50.3 .5 is not carried out"	3.5 shall notbe c	arried"to " and	Suggested	Remedy				
Response	Re	sponse Status C			Change the line from "All overhead octets except for J1 shall be set"to " All overhead octets except for J1 are set"					
REJECT.					Response		Response Status	;		
This changes references the	a required aspe SHALL that the	ect of the test pattern ger e commenter is proposin	erator functiona g to delete.	lity. The PICS	REJE	CT.				
C/ 50 SC	50.3.8.2	P 392	L <b>4</b>	# 43	This S	HALL statement	ensures that the values u	used for the overhea	d octets in the TSS are	
Tim Warland		Quake Techno	ologies		testing	. Removal of this	s SHALL statement (and	the associated PICS	entry) could lead to	
Comment Type	тС	omment Status R	-		confor	ming implementa	ations failing to interwork.			
Remove the sl	hall statement				C/ 50	SC 50.3.8.2.	1 P 393	L 12	# 46	
SuggestedRemed	W				Tim Warla	nd	Quake T	lechnologies		
change line fro	om "PRBS c	enerator shall be used	"to " PRBS ae	enerator is used"	Comment	Туре Т	Comment Status R	R		
Response	Re	soonse Status <b>C</b>			Remo	ve the shall stater	ment			
REJECT	ne ne				Suggested	Remedy				
This changes	a required aspe	ect of the test pattern ger	erator functiona	lity. The PICS	Change the text from " The CID pattern shall comprise 9 octets"to "The CID pattern compromises 9 octets".					
references the	SHALL that the	e commenter is proposin	g to delete.		Response		Response Status	:		
					REJE	CT.				
					This S	HALL statement	is the only normative loca	ation in the clause th	at specifies both the	

size and the location of the CID pattern. Removing it would not be advisable. Also, this would result in the removal of PICS item TP12.

Page 11 of 30 C/ 50 SC 50.3.8.2.1

C/ 50 SC 50.3.8.2.2 P 393 L 14 # 47	C/ 51 SC 51.1.2 P 409 L 5 # 52
Tim Warland Quake Technologies	Tim Warland Quake Technologies
Comment Type T Comment Status R	Comment Type E Comment Status A
Remove the shall statements	The transmit clock is provided by the PMA client in response to the transmit source clock
SuggestedRemedy	provided to the PMA client. The text in bulleta) should say that the PMA provides the transmit source clock to the PMA client
Change the line from " The pattern shall alternate in consecutive "to " the pattern	SuggestedRemedy
alternates in consecutive"	Change bullet a to read " Provide transmit source clock to the PMAclient:"
Response Response Status C	Response Response Status C
REJECT.	ACCEPT.
As with comment #46, removal of the SHALL would remove the only normative requirement for the CID pattern to alternate between all-ones and all-zeros. This would also force the removal of PICS item TP13.	Cl 51         SC 51.10.4.3         P 425         L 7         # 69           Tim Warland         Quake Technologies
C/         51         P 408         L 23         # 51           Tim Warland         Quake Technologies	Comment Type E Comment Status A Add a reference to the PICS for PR1
Comment Type E Comment Status A	SuggestedRemedy
The text at line 4 indicates that the serial PMA function is shownshaded in figure 51-1.	PR1 should reference sub clause 51.3.2
However, the block is not shaded in the figure. SuggestedRemedy	Response Response Status C ACCEPT.
Show the PMA function shaded in figure 51-1.	
Response Response Status C ACCEPT.	Tim Warland Quake Technologies
C/ 51 SC 51.1.1 P 408 L 43 # 50	Comment Type E Comment Status R The PMA_UNITDATA.request is provided from the PMA client to thePMA service interface.
	SuggestedRemedy
Too many occurances of the word interface. Suggest the textshould read " the 10 Gigabit	Add the words "service interface" to the end of the first sentence.
sixteen bit interface (XSBI)."	Response Response Status C
SuggestedRemedy	REJECT.
Remove the second occurance in "interface" in the sentence	C/ 51 SC 51.2.2 P410 L3 # 54
Response Response Status C	Tim Warland Quake Technologies
	Comment Type E Comment Status R The PMA_UNITDATA.indicate is provided from the PMA service interfaceto the PMA client
	SuggestedRemedy add the words "service interface" between "PMA" and "to its client".
	Response Response Status C REJECT.

The Warland       Quake Technologies         Comment Type       E       Comment Status A         SuggestedRemedy       Convent NDT to lowercase 'not'         Response       Response Status C         ACCEPT.       Comment Type       E       Comment Type         Convent Type       E       Comment Type       E       Comment Type         Comment Type       E       Comment Type       E       Comment Type       E         Comment Type	CI 51 SC 51 2 3 1	P410	/ 34	# 55	CI 51	SC 51 4	P413	/ 24	# 50
Comment Type       E       Comment Status       A         Convent Type       E       Comment Status       A         Suggested/Famedy       Convent TNOT to lowercase 'not'       B       Convent TNOT to lowercase 'not'         Convent TNOT to lowercase 'not'       Exepose Response Status       C         Convent TNOT to lowercase 'not'       Exepose Response Status       C         Convent TNOT       E       Comment Status       A         Convent Type       E       Comment Type       E       Comment Status       A         Convent Type       E       Comment Type       E       Comment Type       E       Comment Status       A         Convent Type       E       Comment Type       E       Comment Type       E       Comment Status       A         Convent Type       E       Comment Status       A       With the instandant function "to" to the XSBI transmit function "to" to the XSBI transmit function "to" to the XSBI transmit function "to" to the XSBI	Tim Warland	Quake Techno	blogies	" 33	Tim Warlan	id	Quake Te	echnologies	" 55
The word "had" should not be capitalized. SuggestedRemedy Convert 'Not' is toward to as described in 51.7.2" by the end of the paragraph. Response Response Status C ACCEPT. C151 SC 51.3. P411 L 23 # 56 Tim Warland Quake Technologies Comment Type E Comment Status A the term 'to facilitate proper status Quark Technologies Comment Type E Comment Status A SuggestedRemedy Change the word 'sending' is slightly ague. The function of the PMA would be better expressed by the term 'to facilitate proper status C ACCEPT. C151 SC 51.4 P412 L46 # 57 Tim Warland Quake Technologies Comment Type E Comment Status A SuggestedRemedy Change the word 'sending' to descritation' SuggestedRemedy Change the word 'sending' to assert the thanges required by tables1:2 and 51:3. The State Status C ACCEPT. C151 SC 51.4 P412 L46 # 57 Tim Warland Quake Technologies Comment Type E Comment Status A SuggestedRemedy AcCEPT. C151 SC 51.4 P412 L46 # 57 Tim Warland Quake Technologies Comment Type E Comment Status A SuggestedRemedy AcCEPT. C151 SC 51.4 P412 L46 # 57 Tim Warland Quake Technologies Comment Type E Comment Status A SuggestedRemedy AcCEPT. C151 SC 51.4 P413 L47 # 00 Change the word 'sending' to determine and 51:3 cm SuggestedRemedy Add the XSBI physical interface block to the PMA blocks in figure 51:2 me XSBI reflection to the PMA and PMA will not help the already confused to status not interface. SuggestedRemedy will not help the already confused reader. C151 SC 51.1 P413 L47 # 00 Change the word 'The 'to 'XSBI' Response Response Status C ACCEPT. C151 SC 51.1 P413 L43 # 61 Tim Warland Quake Technologies Comment Type E Comment Status R SuggestedRemedy will not help the already confused reader. C151 SC 51.1 P413 L43 # 61 Tim Warland Cuake Technologies Comment Type E Comment Status R SuggestedRemedy Will not help the already confused reader. C151 SC 51.1 P414 L43 # 61 Tim Warland Cuake Technologies Comment Type E Comment Status R SuggestedRemedy Change the word 'The N' to 'XSBI' Response Response Status C ACCEPT. C151 SC 51.1 P414 L43 # 61 T	Comment Type E Co	omment Status A			Comment 7	Гуре Е	Comment Status A		
SuggestedRenery       Value Provided as described in 51.7.2*         Convert 'NOT' to lowercase 'not'       Response factors for the conversion of the paragraph.         Response factors for the conversion of the paragraph.       Response factors for the conversion of the paragraph.         Convert 'NOT' to lowercase 'not'       Response factors for the conversion of the paragraph.         Convert 'NOT' to lowercase 'not'       Response factors for the conversion of the paragraph.         Convert 'NOT' to lowercase 'not'       Response factors for the conversion of the paragraph.         Convert 'NOT' to lowercase 'not'       Convert Status factors for the conversion of the paragraph.         Convert 'Not' to lowercase of the term 'no facilitate proper sending 'to salightly vague. The function of the to conversion of the paragraph.       Response factors factors for the PMA clientrow provides data groups the word 'sending' to desertain status of the conversion of the paragraph.         Response factors factors for the paragraph.       Response factors factors factors for the paragraph.         Response factors factors for the paragraph.       Response factors factors factors factors factors for the paragraph.         Response factors factors for the paragraph.       Response factors	The word "not" should not be	capitalized.			Just to	be perfectly cle	ar on what constitutes a va	alid PMA_RX_CLK,th	netext should say "a
Convert NDT' to lowercase 'not'         Response       Response Status C         ACCEPT.       Ci 51       SC 51.3.3       P411       L23       # [56]         Ci 51       SC 51.3.3       P411       L23       # [56]         Comment Type       E       Comment Status A       Quake Technologies         Comment Type       E       Comment Status A       With terms to facilitate proper someting' is slightly vague. The function of the PMA would be batter expressed by the term 'to facilitate proper desentalization'       SiggestedRemedy         Change the word 'sending' to desentalization'       Cargester/Remedy       Comment Status A         Corrent Type       E       Comment Status A       With the instantiation of the XSBI physical interface. the PMA clientnow provides data groups to the XSBI transmit function*to* to the XS	SuggestedRemedy				Valid P	MA_RX_CLK IS Romodu	s provided as described in s	51.7.2	
Response       Response Status       C         ACCEPT.       Im Warland       Quake Technologies       Response Status       C         Commont Type       E       Commont Status       A       L3       # 58         SuggestedRemedy       Commont Status       A       Usake Technologies       Commont Status       A         Charge the word sending 'to describilization'       Response       Response Status       C       Commont Status       A         With the instantiation of the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA clienthrow provides data groups to the XSBI physical interface, the PMA transmit function*to* to the XSBI transmit function which latches the data.         SuggestedRemedy       Comment Type       E       Comment Status       Response       Response Status       C         Add the XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface the XSBI physical interface block with as the transmitter and 51-3 for the receiver.       Response       Response Status       C	Convert "NOT" to lowercase "	not"			add the	text "as descri	bed in 51.7.2" to the end of	f the paragraph.	
ACCEPT.       The part of a single proper sending is slightly vague. The function of the PMA would be better expressed by the term "to facilitate proper sending is slightly vague. The function of the PMA would be better expressed by the term "to facilitate proper deserialization"       C/ 51 SC 51.4 P413 L3 # 36         SuggestedRemady       Change the word 'sending' to deserialization"       Comment Type E Comment Status A         With the instantiation of the XSBI physical interface. Interface block to the PMA blocks in figure 51-2 and 51-3. The figure needs to add the XSBI physical interface block to the PMA blocks in figure 51-2 and 51-3 and the XSBI physical interface block to the PMA blocks in figure 51-2 and 51-3. The figure needs to add the XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block to the PMA blocks in figure 51-2 and 51-3 for the transmitter and 51-3 for the receiver. The exact details are difficult to show in asci.       Comment Type E Comment Status A         Response       Response Status C         Response       Response Status C         Going another layer	Response Res	sponse Status C			Response		Response Status C	and paragraphic	
Cl 51       SC 51.3.3       P411       L23       # 55         Tim Warland       Ouake Technologies       Comment Status A         the term 'to facilitate proper sending' is slightly vague. The function of the PMA would be better expressed by the term 'to facilitate proper deserialization'       Comment Type       E       Comment Type       C       Accept         ACCEPT.       Accept       Cl 51       SC 51.4       P413       L3       # 58         Comment Type       E       Co	ACCEPT.				ACCE	PT.			
Tim Warland       Quake Technologies       Tim Warland       Quake Technologies         Comment Type       E       Comment Status A       Tim Warland       Quake Technologies         SuggestedRemedy       Change the word "sending" to deserialization"       With the instantiation of the XSBI physical interface, the PMA clienthow provides data groups to the XSBI transmit function which latchestife data.         XuggestedRemedy       Change the word "sending" to deserialization"       Change the word text "to the PMA transmit function"to" to the XSBI transmit function	C/ 51 SC 51.3.3	P 411	L <b>23</b>	# 56	CI 51	SC 51 4	P413	13	# 59
Comment Type       E       Comment Status       A         he term 'to facilitate proper sending' is sightly vague. The function of the PMA would be better expressed by the term 'to facilitate proper deserialization''       SuggestedRemedy         Change the word 'sending' to deserialization''       Response       Response Status       C         ACCEPT.       Cl 51       SC 51.4       P412       L46       # [57]         Tim Warland       Quake Technologies       C       ACCEPT.       Cl 51       SC 51.4       P412       L46       # [57]         Tim Warland       Quake Technologies       C       ACCEPT.       Cl 51       SC 51.4.1       P413       L47       # [60]         Comment Type       E       Comment Status       A       Tim Warland       Quake Technologies       Comment Status       A         Change the word 'text ''.to the PMA bioks in figure 51-2 and 51-3. The figure needs to add the XSBI physical interface block with physical interface block to the PMA blocks in figure 51-2. The XSBI physical interface block with appingdescribed by 51-2 for the transmitter and 51-3 for the receiver. The exact details are difficult to show in asail.       Response Status       C         Response       Response Status       C       ACCEPT.       Comment Status       A         View of the receiver. The exact details are difficult to show in asail.       Response Status <td< td=""><td>Tim Warland</td><td>Quake Techno</td><td>ologies</td><td></td><td>Tim Warlan</td><td>id</td><td>Quake Te</td><td>echnologies</td><td># <u>58</u></td></td<>	Tim Warland	Quake Techno	ologies		Tim Warlan	id	Quake Te	echnologies	# <u>58</u>
The term to facilitate proper described proper described particular term to facilitate proper described particular term term term term term term term ter	Comment Type E Co	omment Status A	The foresting of t		Comment 7	vpe E	Comment Status A		
Suggested/Heinledy         Change the word "sending" to deserialization"         Response       Response Status         C       ACCEPT.         Cf 51       SC 51.4       P412       L 46       # 57         Tim Warland       Quake Technologies       C         Comment Type       E       Comment Status       R         Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface block to the PMA blocks in figure12-2. The XSBI physical interface block will have the bit mappingdescribed by 51-12 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascil.       Comment Type       E       Comment Status       A         Response       Response Status       C       Comment Type       E       Comment Status       A         Suggested/Remedy       Add the XSBI physical interface block to the PMA blocks in figure12-2. The XSBI physical interface block will have the bit mappingdescribed by 51-12 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascil.       C       ACCEPT.         Response       Response Status       C       Response Status       C         Response       Response Status       C       C       ACCEPT.         Cient. Adding another layer in the drawing will not help the already confused reader.       C       Suggested/Remedy	better expressed by the term "	to facilitateproper deser	ialization"	ne pima would de	With th groups	e instantiation of to the XSBI tra	of the XSBI physical interfa	ce, the PMA clientno	ow provides data
Response       Response Status       C         ACCEPT.       Cl 51       SC 51.4       P412       L46       # 57         Tim Warland       Quake Technologies       C       ACCEPT.       Cl 51       SC 51.4.1       P413       L47       # 60         Comment Type       E       Comment Status       R       Figure 61-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure eads to add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. The exact details are difficult to show in ascii.       Comment Type       E       Comment Status       A         Response       Response Status       C       Comment Type       E       Comment Status       A         Response       Response Status       C       C       ACCEPT.       Cl 51       SC 51.4.1       P413       L47       # 60         Comment Type       E       Comment Status       A       Tim Warland       Quake Technologies       Comment Status       A         Suggested/Remedy       Class how in ascii.       Response Status       C       ACCEPT.       Class how in ascii.       Response Status       C         Response       Response Status       C       C       ACCEPT. <t< td=""><td>Change the word "sending" to</td><td>deserialization"</td><td></td><td></td><td>Suggested</td><td>Remedy</td><td></td><td></td><td></td></t<>	Change the word "sending" to	deserialization"			Suggested	Remedy			
ACCEPT.       Cl 51       SC 51.4       P 412       L 46       # 57         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       Comment Type       E       Comment Status       A         Response       Response Status       C       C       Tim Warland       Quake Technologies         SuggestedRemedy       Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       Response       Response Status       C         Response       Response Status       C       C       ACCEPT.       Change the word "PMA" to "XSB!"       Response Status       C         Response       Response Status       C       C       ACCEPT.       Cl 51       SC 51.4.1       P414       L43       # [61]         Will not help the already confused reader.       C       Comment Type       E       Comment Type       E       Comment Type       E <t< td=""><td>Response Res</td><td>sponse Status C</td><td></td><td></td><td>Change function</td><td>e the word text</td><td>to the PMA transmit func</td><td>tion"to" to the X</td><td>SBI transmit</td></t<>	Response Res	sponse Status C			Change function	e the word text	to the PMA transmit func	tion"to" to the X	SBI transmit
Cl 51       SC 51.4       P412       L46       # 57         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       Cl 51       SC 51.4.1       P413       L47       # 60         Response       Response Status       C       Comment Type       E       Comment Type       E       Comment Type       E       Comment Type       E       Comment Status       A         Response       Response Status       C       Response Status       C       ACCEPT.       Cl 51       SC 51.4.1       P414       L43       # 61         Will not help the already confused reader.       Comment Type       E       ACCEPT.       Cl 51       SC 51.4.1       P414       L43       # 61       Tim Warland       Quake Technologies         Response Status       C       Status       C       SC 51.4.1       P	ACCEPT.				Response		Response Status C		
Tim Warland       Quake Technologies         Comment Type       E       Comment Status       R         Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface not of the PMA service interface.       Cl 51       SC 51.4.1       P 413       L 47       # 60         SuggestedRemedy       Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       Acd the XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       Response       Response Status       C         REJECT.       Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader.       Cl 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy       Add the words "by the PMA client" to the end of this sentence.         Cl 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies       Comment Type<	C/ 51 SC 51.4	P <b>412</b>	L <b>46</b>	# 57	ACCEF	PT.			
Comment Type       E       Comment Status       R         Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface not pot the PMA service interface.       SuggestedRemedy         Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascil.       Tim Warland       Quake Technologies         Response       Response Status       C       Response Status       C         REJECT.       Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader.       Ci 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy       Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.         SuggestedRemedy       Add the words "by the PMA client" to be end of this sentence.       Add the words "by the PMA client" to be end of this sentence.	Tim Warland	Quake Techno	ologies		C/ 51	SC 51.4.1	P 413	L <b>47</b>	# 60
Figure 51-2 was not updated to reflect the changes required by tables51-2 and 51-3. The figure needs to add the XSBI physical interface not pot the PMA service interface.       Comment Type E       Comment Status A         SuggestedRemedy       Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.       SuggestedRemedy         Response       Response Status C       Response Status C         REJECT.       Figure 61-2       Figure 61-2         Will not help the already confused reader.       C       ACCEPT.         Cl 51       SC 51.4.1       P414       L43       # [61         Tim Warland       Quake Technologies       Comment Type E       Comment Type E       Comment Status R         Just to be clear on signal flow, the PMA client.       SuggestedRemedy       List to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.	Comment Type E Co	omment Status R			Tim Warlar	d	Quake Te	echnologies	
SuggestedRemedy         Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii.         Response       Response Status       C         REJECT. Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader.       C       ACCEPT.         Cl       51       SC 51.4.1       P414       L43       # 61         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA client.       SuggestedRemedy       Add the words "by the PMA client.       SuggestedRemedy         Accept.       Close to use receiver.       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA client.       SuggestedRemedy       Add the words "by the PMA client.       SuggestedRemedy         Add the words "by the PMA client.       SuggestedRemedy       Add the words "by the PMA client.       SuggestedRemedy	Figure 51-2 was not updated t figure needs to add the XSBI	to reflect the changes re- physical interfaceon top	quired by tables5 of the PMA servi	1-2 and 51-3. The ce interface.	Comment 7	<i>Type</i> <b>E</b>	Comment Status A	ΣΜΔ	
Add the XSBI physical interface block to the PMA blocks in figure51-2. The XSBI physical interface block will have the bit mappingdescribed by 51-2 for the transmitter and 51-3 for the receiver. Theexact details are difficult to show in ascii. Response Response Status C REJECT. Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader. C 151 SC 51.4.1 P414 L43 # 61 Tim Warland Quake Technologies Comment Type E Comment Status R Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client. SuggestedRemedy Add the words "by the PMA client" to the end of this sentence. Response C Response Status C ACCEPT. C 151 SC 51.4.1 P414 L43 # 61 Tim Warland Quake Technologies Comment Type E Comment Status R Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.	SuggestedRemedy				Suggested	Domodu		100 (.	
the receiver. Theexact details are difficult to show in ascii.          Response       Response Status       C         REJECT. Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader.       Response       Response Status       C         CI 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies         Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy       Add the words "by the PMA client" to the end of this sentence.	Add the XSBI physical interface block will have the b	ce block to the PMA bloc it mappingdescribed by s	cks in figure51-2. 51-2 for the trans	The XSBI physical mitter and 51-3 for	Change	e the word "PM	A" to "XSBI"		
Response       Response Status       C         REJECT. Figure is clear in showing where the XSBI sits in relation to the PMA and PMA client. Adding another layer in the drawing will not help the already confused reader.       ACCEPT.         Cl 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy       Add the words "by the PMA client" to the end of this sentence.       SuggestedRemedy	the receiver. Theexact details	are difficult to show in as	SCII.		Response		Response Status C		
Client. Adding another layer in the drawing will not help the already confused reader.       Cl 51       SC 51.4.1       P 414       L 43       # 61         Client. Adding another layer in the drawing will not help the already confused reader.       Cl 51       SC 51.4.1       P 414       L 43       # 61         Tim Warland       Quake Technologies       Quake Technologies       Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy       Add the words "by the PMA client" to the end of this sentence.       Dependent	Response Res	sponse Status C	site in relation to	the DMA and DMA	ACCEF	PT.			
will not help the already confused reader.       Tim Warland       Quake Technologies         Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.       SuggestedRemedy         Add the words "by the PMA client" to the end of this sentence.       R	client. Adding another layer in	the drawing			C/ 51	SC 51.4.1	P 414	L <b>43</b>	# 61
Comment Type       E       Comment Status       R         Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client.         SuggestedRemedy         Add the words "by the PMA client" to the end of this sentence.	will not help the already confu	sed reader.			Tim Warlan	d	Quake Te	echnologies	
Just to be clear on signal flow, the PMA_TXCLK_SRC&ItP,N> signalis provided by the PMA client. SuggestedRemedy Add the words "by the PMA client" to the end of this sentence. Becomese					Comment 7	Гуре Е	Comment Status R		
SuggestedRemedy Add the words "by the PMA client" to the end of this sentence.					Just to PMA cl	be clear on sig ient.	nal flow, the PMA_TXCLK	_SRC <p,n> signal</p,n>	is provided by the
Add the words "by the PMA client" to the end of this sentence.					Suggested	Remedy			
					Add the	e words "by the	PMA client" to the end of t	his sentence.	
Response Response Status C					Response		Response Status C		
REJECT. Sentence is clear enough.					REJEC Senten	CT. ce is clear enou	ıgh.		

Tim Warland Quake Technologies	Tim Warland Ouske Technologies	_						
Comment Type E Comment Status A	Comment Type E Comment Status R							
The xsbi_rx data groups are not necessarily latched and presented tothe PMA client.	The XSBI transmit interface operates between the XSBI and the PMAclient. SuggestedRemedy							
Latching is an implementation, presenting them inaccordance with this spec is what really matters								
SuggestedRemedy	Change the word PMA to XSBI there are 2 occurances.							
Delete the words "latched and"	Response Response Status C							
Response Response Status C	REJECT.							
ACCEPT.	C/ 51 SC 51.6.2 P419 L 35 # 68							
	Tim Warland Quake Technologies							
C/ 51         SC 51.4.1         P 415         L 17         # 62           Tim Warland         Ouake Technologies	Comment Type E Comment Status A							
	This paragraph describes an implementation example for phasealignment As such it							
The PMA. SI signal is required to be compliant with the LVTTI specification referenced. It is	should not be in the							
recommended that this be changed to a shall statement	SuggestedRemedy							
SuggestedRemedy	Delete this paragraph							
Change the text to " This signal shall be compliant with"Don't forget to update the PICS.	Response Response Status C							
Response Response Status C	ACCEPT.							
ACCEPT.	C/ 51 SC 51.6.2 P419 L4 # 67							
C/ 51 SC 51.6 P417 L14 # 64	Tim Warland Quake Technologies							
Tim Warland Quake Technologies	Comment Type E Comment Status R							
Comment Type E Comment Status A	Just to be clear, the PMA_TX_CLK is derived from the PMA_TXCLK_SRCat the PMA client							
We don't want implementers to "exchange the differential outputs of the clocks from input to	SuggestedRemedy							
output". We want to allow implementors the optionto exchange the positive and negative signals of the differential pair	add the text "at the PMA client" to the end of the sentence.							
SuggestedRemedy	Response Response Status C							
Change the text from "exchanging the differential outputs of the clocksfrom input to	REJECT. Text is clear enough.							
output"to "exchanging the positive and negative signals of the differentialclockoutputs".	C/ 51 SC 51.7 P420 L4 # 65							
Response Response Status C	Tim Warland Quake Technologies							
ACCEPT.	Comment Type E Comment Status A							
	We don't want implementers to "exchange the differential outputs of the clocks from input to output". We want to allow implementors the option exchange the positive and negative signals of the differential pair.							
	SuggestedRemedy							
	Change the text from "exchanging the differential outputs of the clocksfrom input to output"to "exchanging the positive and negative signals of the differential clockoutputs".							
	Response Response Status C							

Page 14 of 30 C/ 51 SC 51.7

C/ 52 S	С	Р	L	# 52002	CI 52 S	SC 51.8.1	P 443	L <b>36</b>	# 73
Lindsay, Tom					Tim Warland		Quake Techno	ologies	
Comment Type Table 52-5	T sets a couple	Comment Status A of levels for			Comment Type In the equa	e E ( ation for B. the e l	Comment Status <b>R</b> ooks like a subscript chara	acter	
Signal_dete a. The FAIL average por b. OK refers	ect. Level should wer. s to Receive s	be clarified to be average sensitivity. I ASSUME th	ge or OMA. I sugges is is informative	st	SuggestedRen change (e)	nedy from subscript to	e regular font size.		
Receive ser ASSUME it value of a p	nsitivity, and t is the Receiv particular rece	hat therefore it is an OM e sensitivity value in the iver. If this is all correct,	A value. I also standard, not the clarification		REJECT.	The size is corre	ect Looks like a PDF artif	act.	
would help.					C/ 52 S	SC 52.1	P <b>402</b>	L <b>1</b>	# 99001
SuggestedRem	ledy				Thatcher, Jona	than	World Wide P	'ackets	
See comme	ent				Comment Type	e TR (	Comment Status A	Te	chnical Feasibility (D3.0)
ACCEPT IN Write "-30 of Write "Rece Change thre	N PRINCIPLE IBm average eiver sensitivit ee footnotes c	Response Status C power". ty (max) in OMA in Table in tables to read: * Rece	e 52-9, 52-14, or 52 eiver sensitivity is in	-18" formative."	board for a will be dem ballot. " Th there was i meet the o	pproval to create nonstrated during is requirement wa no evidence that I ther four criteria.	a standard, we committee the course of the project, as added to our PAR beca PMD and PMA technology Feasibility means that tech	I that: "10 Gb/s E prior to the comp luse, at the time of y was feasible wh hnology must be	ithernet technology Jetion of the sponsor of writing the PAR, hich simultaneously demonstrated with
CI 52 S	С	P <b>436</b> ,	<b>440</b> L	# 52001	reports and reliability.	d working models; Historically, Ether	; proven technology; reasc net has been successful, i	onable testing and in part, because i	d with confidence in it "leveraged"
Yorks, Jason					technology	that existed at th	e time of the writing of the	PAR. No such 1	10 Gigabit PHY
Comment Type	E	Comment Status A			technology	r existed in Noven	nber 1999. While the time les away, it is not clear tha	for which this mu	ust be completed is
Footnote or (max), resp	n 436 line 51 a ectively, not re	and 440 line 21 should be eceive sensitivity.	e associated with R	eceiver average power	validate the	e specifications; n ure that the PMDs	neasurement procedures; s individually meet the requ	engineering anal uirement we set f	lysis and judgment for ourselves in time
SuggestedRem	ledy				for the May	2001 cutoff for l	ast technical change.		
Move footno	ote mark up o	ne line			SuggestedRen	nedy			
Response ACCEPT.	_	Response Status C			DEMONS PMD type, the other 4 achieved.	TRATE the techni 10GBASE-SR/LI criteria. Or, chan	ical feasibility of the techn R/ER/SW/LW/EW, individ age the requirements/spec	ology specified in Jually while ensur cifications such th	1 Clause 52 for each ring the attainment of 1 this goal can be
C/ 52 S	С	P <b>462</b>	L <b>34</b>	# 52003	Response	R	esponse Status <b>C</b>		
Dawe, Piers	_				ACCEPT.	Technical feasil	, bility has been demonstra	ted.	
Comment Type	T	Comment Status A							
Match up 0.	.4 dB attenua	tion with channel insertio	on loss.						
SuggestedRem Change cha	edy annel insertior	n loss to 6 dB.							
Response ACCEPT.		Response Status C							

C/ 52	SC 52.1	P 512	2 /	L 1	# 99004	C/ <b>52</b>	SC 52.13
Grow, Rob	pert	Intel				Doug Cole	eman
Comment D3.0 c define	<i>Type</i> <b>TR</b> comment #850 is be id in this clause has	Comment Status	<b>R</b> . Technical fe ed.	<i>Tecl</i> easibility of t	nnical Feasibility (D3.1 he interfaces	) Comment Typog	<i>Type</i> <b>E</b> graphical error - nd 1
Suggested Each F five cri	dRemedy PMD type must be iteria.	demonstrated as tech	nically feasible	e per our co	nmitment in the	Chan Response ACCI	ge nd to and.
REJEC	CT. No change to cal feasibility.	the text is suggested b	z by remedy. Ac	d hoc formed	to address	<i>Cl</i> <b>52</b> Dawe, Pie	SC <b>52.14.1</b>
<i>CI</i> 52 Dawe, Pier	SC 52.1.1.3.3 rs	P <b>43</b> ′ Agilent	1 /	23	# 95	Comment nd	Туре Е
Comment Senter PMD_ Effect	<i>Type</i> <b>E</b> nce in wrong subcla signal_detect_0 sh of receipt.	Comment Status ause : "If the MDIO intr all be continuously se	<b>A</b> erface is impl t to the value	emented, th of SIGNAL_	en _DETECT." isn't an	Suggeste and Response	dRemedy
Suggested	dRemedy					ACCE	EPT.
Move Response ACCE	sentence. To 52.1	.1.3.2? Response Status	С			C/ <b>52</b> Steve Swa Comment	SC <b>52.14.1</b> anson <i>Type</i> <b>E</b>
C/ <b>52</b> Dawe, Pier	SC <b>52.1.1.3.3</b> rs	P <b>43</b> ′ Agilent	1 /	4	# 96	The n B1.1 text ir	ote "Note: It is believ or B1.3" is buried bel n lines 9-11.
Comment Unhelp	<i>Type</i> <b>E</b> pful sentence.	Comment Status	R			Suggeste Move	dRemedy the footnote above 1
Suggested Make same f	dRemedy reference to the su form of words appe	bclause where the effe	ect of receipt	is specified	or described. If	Response ACCI	e EPT.
Response REJE	CT.	Response Status	C			C/ 52 Doug Cole	SC <b>52.14.2.1</b> eman
VV hile sufficie	I generally agree we ent guidance, and I	have nothing better to	oroposed reso o offer.	lution does i	not provide	Comment SMF	<i>Type</i> <b>T</b> connector insertion a
						<i>Suggeste</i> Chan	dRemedy ge connector insertio
						Response ACCE	ept in principle.

# 145 P 462 L 45 Corning Cable System Comment Status A .0 dB. Response Status C P 462 L 45 # 119 Agilent Comment Status A Response Status C P 463 L 43 # 143 Corning Incorporated Comment Status A ved that for 10GBASE-E, type B4 fiber may be substituted for low a series of footnotes to Table 52-27 when it applies to the Table 52-27 at line 13. Response Status C # 148 P 464 L 5 Corning Cable System Comment Status A and splice loss at 1550 nm is incorrect. on and splice loss value to 3.5 dBat 1550 nm. Response Status C Set total connector and splice loss for 40 km to 1 dB, and 2 dB for 30 km.

Cl 52 Dawe Pier	SC 52.14.3	P <b>464</b> Agilent	L 18	# 121	Cl <b>52</b> Dawe Piers	SC 52.15.3	P <b>467</b> Agilent	L	# 123
Comment T	<i>Type</i> <b>Τ</b> leal channel attenι	Comment Status A Jation is 9.5 dB." no longer?		attenuation	Comment Ty Add MD	rpe E IO to PICS?	Comment Status A		
Suggested I guess	<i>Remedy</i> this changes by 1	I dB as we changed Rx and not	Tx powers.	8.5 dB?	SuggestedR "*MDIO	<i>emedy</i> MDIO capability	52.3 Device supports	the MDIO interface	OYes[] No[]"
Response ACCEF	PT IN PRINCIPLE	Response Status <b>C</b> Ideal is 8 dB, lines should be	45 degrees d	lown from 5, 8, 11 dB.	Response ACCEP	T IN PRINCIPLE	Response Status <b>C</b> . See comment #124.		
C/ <b>52</b> Dawe, Piers	SC <b>52.15</b> s	P <b>467471</b> Agilent	L	# 131	C/ <b>52</b> Dawe, Piers	SC 52.15.4.1	P <b>467</b> Agilent	L <b>35</b>	# 126
Comment T Should Suggested	Type E there be more in t Remedy	Comment Status R the Value/Comment column?			Comment Ty Uneven SuggestedR Reset to	rpe <b>E</b> text size <i>emedy</i> default for table	Comment Status A		
Response REJEC	CT. No remedy su	Response Status <b>C</b> Iggested.			Response ACCEP	г.	Response Status C		
C/ 52 Dawe, Piers	SC <b>52.15.2.2</b> s	P <b>466</b> Agilent	L <b>41</b>	# 122	C/ 52 Dawe, Piers	SC 52.15.4.1	P <b>467</b> Agilent	L <b>4950</b>	# 127
Comment T Unever	<i>Type</i> <b>E</b> n text size	Comment Status A			<i>Comment Ty</i> Both FS	<i>pe</i> <b>E</b> 6 Signal detect fu	Comment Status R unction and FS7 Signal dete	ect behavior seems	s like overkill
Suggested Reset t	<i>Remedy</i> to default for table				SuggestedR Merge: F	<i>emedy</i> S6 Signal detec	t behavior		
Response ACCE	PT.	Response Status C			Response REJECT	. Matches the s	Response Status <b>C</b> shalls.		
Cl 52 Dawe, Piers	SC <b>52.15.3</b> s	P <b>467</b> Agilent	L	# 125	C/ <b>52</b> Dawe, Piers	SC 52.15.4.11	P <b>471</b> Agilent	L	# 130
Comment T "O" PIC	<i>Type</i> <b>E</b> CS groups need *	Comment Status A			Comment Ty Most of t	<i>rpe</i> <b>E</b> hese must be op	Comment Status A	have fiber	
Suggested See 49	<i>Remedy</i> .3 as an example				SuggestedR Introduc	emedy e "*INS" major c	apabilities/options to 52.15.	.3. Status of most	of this group
Response ACCEI	PT.	Response Status C			become Response ACCEP <sup>-</sup>	s "INS:M" F. Also add "*" f	Response Status <b>C</b> for each family option.		

C/ 52 SC 52.15.4.2 Dawe, Piers	P 468 Agilent	L	# 128	C/ <b>52</b> Dawe, Piers	SC 52.4.4	P <b>433</b> Agilent	L 11	# 97
Comment Type E Some of these are man	Comment Status A datory if MDIO is implemented			Comment Ty Use of b	pe E rackets	Comment Status A		
SuggestedRemedy Change status to "MDIC	D:M" where justified by clause			SuggestedRe Remove	e <i>medy</i> brackets from	outside of expression per D3.	2 #322.	
Response ACCEPT.	Response Status C			Response ACCEPT	г.	Response Status C		
C/ 52 SC 52.15.4.2 Ohlen, Peter	P 468 Optillion	L 11	# 84	C/ <b>52</b> Dawe, Piers	SC 52.5	P <b>434</b> Agilent	L 18	# 98
Comment Type E I think item MR3 refers	Comment Status A to the MDIO mapping, not the c	output power whi	ch covered by MR2.	Comment Ty spelling	pe E	Comment Status A		
SuggestedRemedy Change the feature wor should the options not b	rding of MR3 to:"MDIO mapping be: Yes, N/A ?	g for PMD_trans	mit_disable_0"Also,	SuggestedRe Change Response	emedy "rangse" to "ra	nges" Response Status <b>C</b>		
Response ACCEPT.	Response Status C			ACCEPT	Г.			
C/ 52 SC 52.15.4.2 Ohlen, Peter	2 P <b>468</b> Optillion	L 811	# 83	C/ 52 Tim Warland	SC 52.5.2	P <b>436</b> Quake Techr	L <b>52</b> nologies	# 70
Comment Type E PMD_transmit_disable	Comment Status A _0 is defined in section 52.4.7,	not in 52.4.5.		Comment Ty In the foo should b	pe E otnotes, the ave e at MOST 1d	Comment Status R erage receive power max is sp B	pecified to beat lea	ast 1dB higher. This
SuggestedRemedy See comment				SuggestedRe Change I	emedy least to most			
Response ACCEPT.	Response Status C			Response REJECT	. No. Should	Response Status <b>C</b> be at least.		
C/ 52 SC 52.15.4.3 Dawe, Piers	<b>-8</b> <i>P</i> <b>4689</b> Agilent	L	# 129					
Comment Type E Status are wrong	Comment Status A							
SuggestedRemedy For example, status of	SR1 should be "SR:M"							
Response ACCEPT.	Response Status C							

Ohlen, Peter       Optilion       Dawe, Piers       Agilent         Comment Type       T       Comment Status R       Agilent         The receiver sensitivity currently specified using the stressed sensitivity, measured with a conditioned input signal. However, the calibration of the conditioned input signal shape. While the current without works in principle, measurements of unstressed receiver sensitivity will give more consistent results.       Dawe, Piers       Agilent         Suggested/Remedy       Amplitude. See'       Comment Type	C/ 52 SC 52.5	- <b>7,9</b> P	L	# 74	C/ <b>52</b>	SC 52.6.1		P <b>438</b>	L <b>24</b>	# 99
Comment Type       T       Comment Type       Comment Ty	Ohlen, Peter	Optillion			Dawe, Pie	rs		Agilent		
a conditioned input signal. However, the calibration of the conditioned input signal is far from simple as can be done only with fairly low accuracy, especially in the case of scrambide data where it is hard to differentiate between noise and signal starkape. While the current method works in principle, measurements of unstressed receiver sensitivity will give more consistent results.         Suggested/Remedy       Suggested/Remedy         Make the current yinformative receiver sensitivity normative. Changes * footnotes of Tables 52:9,14,18 to:       ** Receiver sensitivity is measured for BER = 1e-12.*         "* Receiver sensitivity is measured for BER = 1e-12.*       Comment Type       Comment Type       Comment Type         Response       Response Status       C         Response       Response Status       C         14:0:10       Comment Type       To comment Status       R         Savara, Raj       Network Elements       To comment Status       R         Comment Type       Comment Status       R         The technical feasibility for DBase-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specifications with sites be able into the specifications with sites be able intermine if the specifications as proposed rare vaid.         Suggested/Remedy       Ask for a feasibility for DBase-L has not been approved. What is the maintum equirements for the specifications as proposed are vaid.       Comment Type       Comment Status       R         Suggested/Remedy       A	Comment Type <b>T</b>	Comment Status R	the stressed sensi	tivity measured with	Comment Missin	<i>Type</i> <b>E</b>	Comment	Status A		
SuggestedRemedy         Make the currently informative receiver sensitivity normative. Changes * footnotes of Tables 52-9, 14, 18 to:         ** Receiver sensitivity is measured for BER = 1e-12."         Remove p-445:34-35         We also need a section about how we define sensitivity per another comment, proposed to be placed just before 52-9, 10.         Response       Response Status C         REJECT. Keep current specifications, with stressed receive sensitivity informative.       Tables 52-14 and 52-15 are not placed with their respective subclauses.         14:0:10       C1 52       SC 52.6       P 437       L       # 139         Savara, Raj       Network Elements       T       Comment Status R       C         Comment Type T       Comment Status R       C       Comment Status R       C         The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specification with the new stessed eye needs to be proven with more than a single vendor. A report was given at the fast interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required.       SuggestedRemedy         SuggestedRemedy       Response Status C       R         Response Katus C       Response Status C       Response Status C         Response Katus C       Response Status C       Response Status C       Re	a conditioned input from simple as can scrambled data wh current method wo more consistent re	signal. However, the calibration be done only with fairly low accurrent is hard to differentiate betw rks in principle, measurements o sults.	of the conditioned uracy, especially in veen noise and sig f unstressed recei	input signal is far n the case of gnal shape. While the ver sensitivity will give	Suggested "Ampl Response	IRemedy itude. See"	Response	Status C		
Make the currently informative receiver sensitivity normative. Changes * footnotes of Tables 52-9.14.18 to: <i>P</i> 439 <i>L</i> 45-52 <i>#</i> 140 <i>Size</i> 34.34.35 <i>We</i> also need a section about how we define sensitivity per another comment, proposed to be placed just before 52.9.10. <i>Cl</i> 52 <i>SC</i> 52.6.2 and 52.6.3 <i>P</i> 439 <i>L</i> 45-52 <i>#</i> 140 <i>Size</i> 34.35 <i>We</i> also need a section about how we define sensitivity per another comment, proposed to be placed just before 52.9.10. <i>Cl</i> 52 <i>SC</i> 52.6.2 <i>Response Status C</i> <i>RELECT</i> . Keep current specifications, with stressed receive sensitivity normative, and unstressed receive sensitivity informative. <i>Cl</i> 52 <i>SC</i> 52.6.2 <i>P</i> 437 <i>L #</i> 139 <i>Cl</i> 52 <i>SC</i> 52.6 <i>P</i> 437 <i>L #</i> 139 <i>Cl</i> 52 <i>SC</i> 52.6.3 <i>P</i> 440 <i>L</i> 22 <i>#</i> 171 <i>SuggestedRemedy</i> Are the sachibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specifications over temperature would be required. <i>Cl</i> 52 <i>SC</i> 52.6.3 <i>P</i> 440 <i>L</i> 22 <i>#</i> 171 <i>The average power max should be no more than 1dB above the spec.</i> <i>SuggestedRemedy</i> <i>SuggestedRemedy</i> <i>SuggestedRemedy Response Status C</i>	SuggestedRemedy				ACCE	P1.				
Remove p.445.34-35         We also need a section about how we define sensitivity per another comment, proposed to be placed just before 52.9.10.         Response       Response Status C         REJECT. Keep current specifications, with stressed receive sensitivity normative, and unstressed receive sensitivity informative.       Comment Type E       Comment Type E         14:0:10       Comment Type T       Comment Status R       Comment Type T       Comment Status R         Savara, Raj       Network Elements       Mainter sepecifications with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature to determine if the specifications as proposed are valid.       Cost Status C         Response       Response Status C         Response       Response Status C         Response       Response Status C         Response valid.       Comment Type E         Comment Type E       Comment Status R         The technologies       Comment Status R         The technologies       Comment Status R         Suggested/Remedy       Ask for a feasibility fest to be completed over temperature would be required.         Suggested/Remedy       Ask for a feasibility test to be completed over temperature performance is not         Response Response Status C	Make the currently 52-9,14,18 to: "* Receiver sensitiv	informative receiver sensitivity n vity is measured for BER = 1e-12	ormative.Changes	s * footnotes of Tables	C/ <b>52</b> Steve Swa	SC <b>52.6.2 a</b> nson	nd 52.6.3	P 439 Corning Incor	L <b>45-52</b> porated	# 140
Response Response Status C Response Status C Response Status C Response Status C 14:0:10 Cl 52 SC 52.6 P 437 L # 139 Savara, Raj Network Elements Comment Type T Comment Status R The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specification with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting neutring meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required. SuggestedRemedy Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid. Response Response Status C REJECT. Technical feasibility has been demonstrated. Temperature performance is not	Remove p.445:34- We also need a se be placed just befo	35 ction about how we define sensit re 52.9.10.	ivity per another c	omment, proposed to	Comment Tables	<i>Type</i> <b>E</b> 52-14 and 52-1	<i>Comment</i> 15 are not place	Status A ed with their res	pective subclause	S.
14:0:10       Image: Contract of the P437 b t to the final revision, and never before or again.         Cl 52       SC 52.6 P437 b t to the final revision, and never before or again.         Comment Type T Comment Status R       Metwork Elements         Cl factor of the PAR. The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The filters specification with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required.         SuggestedRemedy       Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid.       C         Response       Response Status C         Response       Response Status C         REJECT. Technical feasibility has been demonstrated. Temperature performance is not	Response REJECT. Keep cu	Response Status C	d receive sensitivi	tv normative, and	Suggested Move	<i>IRemedy</i> 52.6.2 to page 44	40 above Table	e 52-14. Move 5	2.6.3 to line 30 on	page 440.
Savara, Raj       Network Elements         Comment Type       T       Comment Status       R         The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specification with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required.       C/ 52       SC 52.6.3       P 440       L 22       # [1]         SuggestedRemedy       Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid.       Response       Response Status       C         REJECT. Technical feasibility has been demonstrated. Temperature performance is not       C       SUGGESTION       Response       Response Status       C         Response       Response Status       C       Response       Response       Response       Response       Response       Response       Response       Response       Response	unstressed receive 14:0:10	sensitivity informative.	1	# 130	Response ACCE placer and ne	PT IN PRINCIPI nent of tables in t ever before or ag	Response LE. As we iron the text. This re ain.	Status <b>C</b> out such forma eally needs to be	tting bugs, we can done ONCE on th	i finalize the ne final revision,
Comment Type       T       Comment Status       R         The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specification with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required.       Tim Warland       Quake Technologies         SuggestedRemedy       Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid.       Tim Status       C         Response       Response Status       C       Response Status       C         REJECT. Technical feasibility has been demonstrated. Temperature performance is not       Tim Warland       Uake Technologies	Savara, Raj	Network Ele	ements	" 155	C/ 52	SC 52.6.3		P 440	L 22	# 71
The technical feasibility for 10Base-L has not been approved by the voters. I believe this is a requirement of the PAR. The jitter specication with the new stessed eye needs to be proven with more than a single vendor. A report was given at the last interim meeting, but was not approved. What is the minimum requirements for this to be achieved? I would assume meeting the specifications over temperature would be required. SuggestedRemedy Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid. Response Response Status C REJECT. Technical feasibility has been demonstrated. Temperature performance is not	Comment Type <b>T</b>	Comment Status R			Tim Warla	nd		Quake Techn	ologies	-
SuggestedRemedy       Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid.       Response       Response Status       C         REJECT. Technical feasibility has been demonstrated. Temperature performance is not       Temperature performance is not       Response       Respons	The technical feasi a requirement of th proven with more th was not approved. assume meeting th	bility for 10Base-L has not been the PAR. The jitter spefication with han a single vendor. A report wa What is the minimum requirement e specifications over temperature	approved by the v th the new stessed as given at the last ents for this to be a re would be require	oters. I believe this is I eye needs to be interim meeting, but achieved? I would ed.	Comment The av Suggested	Type E verage power ma Remedy	<i>Comment</i> ax should be no	Status R more than 1dB	above the spec.	
Ask for a feasibility test to be completed over temperature to determine if the specifications as proposed are valid.  Response REJECT. Technical feasibility has been demonstrated. Temperature performance is not	SuggestedRemedy				Deenenee	je Least to iviosi.	Deenenee	Status C		
Response     Response Status     C       REJECT. Technical feasibility has been demonstrated. Temperature performance is not	Ask for a feasibility as proposed are va	test to be completed over tempe lid.	erature to determir	ne if the specifications	REJE	CT. At least is c	correct.			
REJECT. Technical feasibility has been demonstrated. Temperature performance is not	Response	Response Status C								
required by the specification. This comment does not address any specific text in the clause, and does not provide a remedy or replacement text.	REJECT. Technic required by the spe clause, and does n	al feasibility has been demonstra crification. This comment does n ot provide a remedy or replacem	ated. Temperature ot address any sp ent text.	e performance is not ecific text in the						

C/ 52 SC 52.6.3,	Table 52-15	P <b>440</b>	L <b>33</b>	# 141	C/ <b>52</b>	SC 52.7.3		P <b>442</b>	L 38	# 108		
Steve Swanson		Corning Incorp	oorated		Dawe, Pie	rs		Agilent				
Comment Type T	Comment S	Status A			Comment	Type E	Comment	Status A				
Unlike Table 52-10 fo	or 10GBASE-S ar	nd Table 52-19	for 10GBASE-E	ink power budgets,	Whyt	oudgets not budg	et?					
the allocation for pen does not total the link	alties + the chann	$= 7.17 \pm 2.96 =$	tor Table 52-15	tor 10GBASE-L	Suggestee	dRemedy						
SuggestedRemedy	r pomor budgot, it	.,		budgot lo o. r db.	Chang	ge budgets to bud	dget - unless w	e show columns	in Table 52-19 f	or 30 km and 40 km.		
Based on the footnote	e, it would appear	that the channe	el insertion loss s	hould be 0.4*10 + 2	Response	9	Response	Status C				
=6 dB. It is not clear t this change is made,	to me where the 7 6 + 2.96 = 8.96 s	17 dB comes f till does not agr	rom. Clarification ee with 9.4 dB.	is needed. Even if	ACCE	PT IN PRINCIPI	E. New colum	in added by and	other comment, s	o stays budgets.		
Response	Response S	Status C			C/ 52	SC 52.7.3, T	able 52-19	P <b>442</b>	L <b>49</b>	# 142		
ACCEPT IN PRINCI	PLE. See #102.				Steve Swa	anson		Corning Incor	porated			
2/52 80 5272		D 442	/ 17	# 70	Comment	Туре Т	Comment	Status A				
Cr 32     SC 32.1.2     F 442     L 17     # [72]       Tim Warland     Quake Technologies       Comment Type     E     Comment Status     R       Specify the maximum for damage for the E reciever beingat most 1dB above the maximum					While the footnote to Table 52-16 on page 441 makes it clear that links longer than 30km for the same link power budget are considered engineered links, the same cannot be said of Table 52 10, 10CRASE Flink power budgets							
					Suggester	dRemedy		ver buugets.				
Specify the maximum for damage for the E reciever beingat most 1dB above the maximum sensitivity SuggestedRemedy				bove the maximum	Add a footnote similar to the one for Table 52-16 to the operating distance of Table 52-19.							
					Response	;	Response	Status C				
Specify at most 1dB r	more than max se	ensitivity as the	damage threshol	d.	ACCEPT IN PRINCIPLE. See #144							
Response	Response S	Status C										
REJECT. Should be	e at least.				Dawe, Pie	rs		Agilent	-			
SC 52.7.2		P 442	L <b>4</b>	# 104	Comment	Туре Т	Comment	Status R				
lawe, Piers		Agilent			The jit	tter bathtub techn	ique is attractiv	e for proving int	teroperability but	we do not know how		
Comment Type E	Comment S	Status A			in the	future we will be	able to do the b	athtub measure	ement believably,	so it would be a pity		
Per D3.2 #197					to thro	w away the whol	e thing. For 10	GBASE-LX4, w	here the calibrati	on errors expressed		
SuggestedRemedy					Suggester	de 175 as large, i	ionnauve may i	De OR.				
Delete: The sampling	instant is defined	to occur at the	eye center.		Suggested	unemetry lest making the D	l values inform	native This leav	ves us still with a	more rigorous		
Response ACCEPT.	Response S	Status C			metho	odology for intero iate about calibra	perability than of tion methods of	other standards.	Suppliers and p stic arena of a sta	urchasers can indard.		
					Response	)	Response	Status C				
				REJE The D becon inform	CT. D values are alre nes informative, t native.	ady normative, hen the entire r	and W is only a nethod would la	ı mask shape coe ck a critical value	fficient. If W and also become			
					Note - the reviewer does agree that the bathtub method is not easily achievable with the present state of the art and that other methods should be considered.							

C/ 52	SC 52.8.1	Р	L	# 111	CI 52	SC 52.8.	1.1	P 444	L <b>31</b>	# 77
Dawe, Piers		Agilent			Ohlen, Pete	ər		Optillion		
Comment Typ	De E	Comment Status A			Comment	Туре Е	Comm	ent Status A		
BERT is b	oit error RATIO	(here) -see definitions 1.5 or	manufacturer's li	terature.	See re	medy				
SuggestedRei 6 times in appendice	<i>medy</i> this clause, cha es.	ange rate to ratio. Also claus	es 30, 47, 49, 50	, 53 or their	Suggested Chang	<i>Remedy</i> e "Transmitte	ed is tested" to	"The transmitter is t	ested"	
Response ACCEPT	IN PRINCIPLE	Response Status C . See #105			Response ACCE	PT IN PRINC	Respor CIPLE. See #1	nse Status <b>C</b> 12.		
Cl 52 Thatcher, Jona	SC <b>52.8.1</b> athan	P 445 World Wide P	L 9 ackets	# <u>99010</u>	C/ <b>52</b> Ohlen, Pete	SC <b>52.8.</b> er Type <b>T</b>	1.2 Comm	P 444 Optillion eent Status A	L <b>43</b>	# 85
Comment Typ There is n	oe <b>TR</b> no specification of	Comment Status A	iitter measurem	ent	We ne	ed to specify	which of the to	est patterns to use.		
SuggestedRei Include rei (OMA; rise	<i>medy</i> quirement for a e/fall time; test	synchronous Rx valid data ur pattern; etc).	nder reasonable o	optical conditions	New te	ext:The test p ASE-R and th	attern used to he mixed frequ	test the transmitter i ency test pattern de	s test pattern 2 d fined in 50.3.8.2	lefined in 52.9.1 for for 10GBASE-W.
Response ACCEPT	IN PRINCIPLE	Response Status <b>C</b> See #19 for specific cha	nges.		ACCE 52.9.1	PT IN PRINC	Respor	he patterns used to	test the transmit	ter are defined in
C/ <b>52</b> Lindsay, Tom	SC 52.8.1.1	P 444 Stratos Lightwa	L <b>31</b> ave	# 16	C/ <b>52</b> Thatcher, J	SC <b>52.8.</b> Ionathan	2	P <b>446</b> World Wide P	L <b>35</b> ackets	# 99011
Comment Typ Word miss	be E sing	Comment Status A			Comment There	<i>Type</i> <b>TR</b> is no specific	<i>Comm</i> ation on the T	ent Status <b>A</b>	x jitter measurem	nent
SuggestedRei Insert "jitte	<i>medy</i> er" as 2nd word	in 1st paragraph.			Suggested Include	<i>Remedy</i> e requiremen	t for asynchror	ious Tx valid data (ι	ise test pattern?)	
Response ACCEPT.		Response Status C			Response ACCE	PT IN PRINC	Respor	nse Status <b>C</b> #21.		
C/ <b>52</b> Dawe, Piers	SC 52.8.1.1	<i>P</i> <b>444</b> Agilent	L <b>31</b>	# 112	C/ <b>52</b> Dawe, Pier	SC <b>52.8-</b> s	9	P <b>443458</b> Agilent	L	# 116
Comment Typ "Transmitt	be E ted is tested" ?	Comment Status A			Comment Excess	<i>Type</i> <b>E</b> sive capitalisa	Comm ation of "Golde	n" <b>Katus R</b>		
SuggestedRei Change to	<i>medy</i> o "The transmit	jitter is tested" or "The transn	nitter is tested" ?		Suggested In mos	Remedy t cases outsi	de of diagrams	s, use lower case "go	olden fiber", "gold	den receiver" etc.
Response ACCEPT	IN PRINCIPLE	Response Status <b>C</b> . Choose "transmitter".			(many <i>Response</i> REJEC	umes, use se	earch and repla Respor scussion is in c	ace). Most times it s nse Status C rder, but reviewer s	uggests we keep	the caps.

CI 52	SC 52.9	P <b>446</b>	L	#	89
Ohlen, Pete	er	Optillion			

Comment Type T Comment Status A

Patterns.So far, very limited testing has been performed using test patterns 1&2 that we have specified for 10GBASE-R, and all feasibility studies so far have used PRBS patterns.The testing that has been performed indicates that:

\* Test pattern 1 seems to be somewhat more stressful than test pattern 2, although the opposite was intended. However, this seems to be somewhat dependent on the DUT.\* The test patterns seem to be less stressful than the standard PRBS-31 which is commonly used.

This behaviour could be due to the short pattern length which gives more discrete spectral lines than longer PRBS words.

### SuggestedRemedy

Replace the largely untested patterns 1&2 with the PRBS-31 pattern that was present in D3.0. This implies changes to several sub-sub-clauses in 52.8-9.

#### Response

ACCEPT IN PRINCIPLE. Due to a clerical error, the definitions of pattern 1 and 2 are switched in Table 52-23. Change the segment definition.

Response Status C

C/ 52	SC 52.9	P <b>455</b>	L <b>25</b>	#	75
Ohlen, Peter		Optillion			

Comment Type T Comment Status A

Rx sensitivity, although not a requirement of this standard, is indeed informative and important to many people. Assuch, it should have its own heading so as to appear in the table of contents, etc

#### SuggestedRemedy

Insert following text as a sub-sub-clause before 52.9.10:"Receive sensitivity measurements The receiver sensitivity which is defined for an ideal input signal is informative and not required to be tested. If measured, the test signal should have negligible ISI, fast rise/fall times, low jitter and RIN, etc.Instead, receivers are specified using the normative stressed receiver sensitivity. The stressed sensitivity is measured with a conditioned input signal where both vertical eye closure and jitter have been added according to 52.9.11."I think the current section 52.9.10 will become 52.9.11, but the editor will have to check this and if not change 52.9.11 to the appropriate section.

### Response Response Status C

ACCEPT IN PRINCIPLE.

Insert following text as a subclause before and at the same level as 52.9.10: "Receiver sensitivity measurements

Receiver sensitivity, which is defined for an ideal input signal, is informative and testing is not required. If measured, the test signal should have negligible ISI, fast rise/fall times, low jitter and RIN, etc. Instead, the normative requirement for receivers is stressed receiver sensitivity. Stressed sensitivity is measured with a conditioned input signal where both vertical eye closure and jitter have been added according to 52.9.11."

Remove the short paragraph regarding Receiver sensitivity from 52.9.10, page 455, lines 34-35.

Note1 - I think the current section 52.9.10 will become 52.9.11, but the editor will have to check this and if not change 52.9.11 to the appropriate section.

Note2 - editor, please check for consistency between "Receive" and Receiver" regarding this spec and test. Reviewer prefers the latter.

Decision to change to receiver sensitivity for all instances.!

Cl <b>52</b> Ohlen Pet	SC <b>52.9.1</b> er	P 447 Optillion	L <b>40</b>	# [	78	C/ <b>52</b> Lindsay Tr	SC <b>52.9.10</b>	P 455 Stratos Li	L 34	# 30
Comment	с. Туре <b>т</b> Сој	mment Status A				Comment	Type E	Comment Status A	ginnavo	
Senter clearly implen	ace refers to the wrong ta defined in the test section nentations.	able. The shall is also c ons. I think the table is	quite unnecessary also quite useles	/ as the pat s for 10GB	terns are ASE-W	(Inform inform appea	native) Rx sensiti ative and importa r in the table of c	ivity, although not a require ant to many people. As suc	ement of this standard ch, it should have its	d, is indeed own heading so as to
Suggested	Remedy					Suggested	IRemedy			
Option "An ov is shov	1.Change the sentence erview of where the diffe vn in table 52-14."Option	to: erent test patterns are u a 2.Remove the table a	ised for 10GBAS s well as the sent	E-R implem ence.	nentations	Move 52.9.1 Stress	the short paragra 1). Add to the en ed Receiver con	aph regarding Receiver sen Id of the paragraph "See s formance testing."	nsitivity to a new sub ubclause 52.9.10 for	clause (such as a procedure for
Response	Res	ponse Status C				Response		Response Status C		
ACCE by the	PT IN PRINCIPLE. Sha	II is required, so chang for 10GBASE-R and b	e to: "Complianc	e shall be s	specified	ACCE	PT IN PRINCIPI	LE. See #75.		
50.3.8	for 10GBASE-W unless	s specified otherwise."	, F			C/ <b>52</b>	SC 52.9.10	P <b>455</b>	L 38	# 21
In oddi	tion the contion for Tab	lo 52 24 chould appon	d "for 10CBASE	P" at its on	d	Lindsay, To	om	Stratos Li	ightwave	
in auu					u.	Comment	Туре Т	Comment Status A		
C/ 52	SC 52.9.10	Р	L	#	7	In resp	onse to a previo	us comment by Jonathan,	the Tx output signal	conditions during Rx
Lindsay, To	om	Stratos Lightw	ave			confor	mance testing sh	hould be specified more co	mpletely.	
Comment	Туре Е Сог	mment Status A				Suggested	lRemedy			
This co stresse	omment cleans up residued Rx and jitter tolerance	al items from my comi testing into one sectio	ment (#633) on E n.	03.2 that me	erged	Replac under 457 lii	ce the last senter test during this te ne 16 - Modify to	nce with "The output data p est shall be Pattern 2 as do "The range of signalling s	pattern from the trans efined in subclause 5 speeds specified in	smitter of the system 52.9.1."Also, page
Suggested	Remedy					Poopopoo	ne to modify to			
1. Figu Charao pulled tempor 2. 52.9	tre 52-13, page 456. Net cterization blocks. Sugge away from the junction to rary connection. .10.2 page 457, line 24.	ed arrowheads into Opt est the arrow going into o the Optical Attenuato Item f) should be delet	ical Attenuator and the Signal Chara r block just a bit t red. It is redundar	nd Signal acterization o indicate it nt info, and	block be t is a the part	ACCE the tra measu satisfie	PT IN PRINCIPL nsmitter of the sy irement in 52.9.1 as the requireme	LE. Replace the last sent ystem under test is to be th ."Also, page 457, line 16 - nts of or "	ence with "The outpu ne same pattern defir · Modify to "A signalli	it data pattern from ned for this ng speed which
3, 52,9	53 is not correct. 0.10.4 page 458. line 30.	Title should be "Stress	ed receiver conf	ormance te	st	C/ 52	SC 52.9.10.2	2 P <b>457</b>	L <b>21</b>	# 118
proced	lure".					Dawe, Pier	S	Agilent		
4. Tab a. Ad 52.9.1	le 52-24, page 448. d "calibration" to the end 0 (not 52.9.11).	l of "Vertical eye closur	e penalty". Also,	relate to su	bclause	Comment Punctu	<i>Type</i> <b>E</b> Jation fest "in 52	Comment Status A .8.2.2.; Jitter"		
b. Ch	ange Stressed receive	sensitivity"to "conforma	ance".	under 52.0 d	10.0	Suaaesteo	lRemedv			
5. 52.8 6. 52.8	8.1. page 444. line 11. Re	emove the sentence. It	is redundant with	a stateme	nt on line	Clean	up. As this is in	a : delimited list. could use	e The total iitter re	equirements of
21 of p	age 443.	Chould be "This shore	otorization in ma	do using l		52.8.2	.1 including the s	swept frequency sinusoida	l jitter contribution de	escribed in 52.8.2.2
8. 52.8	8.2.1, page 445, line 40. l	Modify to "The test met	thod for verification	on of the sig	gnal for	accom	plished with AC	coupling);		
receive	e jitter tolerance testing is	s defined in".			<u>,</u>	Response		Response Status C		
Response	Res	ponse Status C				ACCE	PT.			
ACCE additio commo	PT IN PRINCIPLE. Channot of sinusoidal jitter" to " ent	ange (2.) 52.9.10.2 pag including sinusoidal jitte	ge 457, line 24. C er" ; also modifie	hange: "be d by anothe	fore the er					

C/ 52 SC 52.9.10.2 Ohlen, Peter	2 P 457 Optillion	L <b>25</b>	# 87	C/ <b>52</b> SC <b>52.9.4</b> Dawe, Piers	P <b>448</b> Agilent	L 46 # 114
Comment Type <b>T</b> Test pattern 2 is not us	Comment Status A sed for 10GBASE-W			Comment Type E Obsolete note about squ	Comment Status A uare wave	
SuggestedRemedy Change wording of iter	n (f) to:" is measured using th	e patterns of (a).	n	SuggestedRemedy Remove note.		
Response ACCEPT.	Response Status C			Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E. See #79.	
C/ 52 SC 52.9.11 Ohlen, Peter	P <b>458</b> Optillion	L <b>41</b>	# 88	C/ <b>52</b> SC <b>52.9.4</b> Lindsay, Tom	P <b>448</b> Stratos Lightwave	L 46 # 17
Comment Type <b>T</b> 10GBASE-W does not	Comment Status <b>A</b> use test patterns 1 or 2.			Comment Type E Sentence is not correct	Comment Status A across all variations allowed by the	square wave pattern.
SuggestedRemedy Add "or the CID test pa	attern" defined in 50.3.8.2.			SuggestedRemedy Remove sentence.		
Response ACCEPT IN PRINCIPL 52.9.1."	Response Status <b>C</b> .E. Change to :"measuremen	ts are made with	the test patterns in	Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E. See #79.	
C/ 52 SC 52.9.11	P 459	L <b>20</b>	# 82	C/ 52 SC 52.9.4 Ohlen, Peter	P <b>448</b> Optillion	L 46 # <mark>79</mark>
Comment Type E	Comment Status A	a postion Alap	add "nanalty" oftar	Comment Type E The note is not neccess	Comment Status <b>A</b> sary and as it currently reads wrong	<b>j</b> .
"vertical eye closure" to	o avoid confusion (this is the wo	ding used in 52.9	9.10.2).	SuggestedRemedy Remove the note.		
Per comment.	Response Status C			Response ACCEPT.	Response Status C	
ACCEPT.				C/ 52 SC 52.9.6.3	P 451	L 42 # 115
C/ 52 SC 52.9.4	P 448 Optillion	L <b>43</b>	# 80	Comment Type F	Aglient	
Comment Type E	Comment Status A			Was this "shall" meant	to be removed with the others in 52	2.9.6 per D3.2 #545?
Wordsmithing.				SuggestedRemedy		
SuggestedRemedy	n consisting of			Response	Response Status C	
Response ACCEPT.	Response Status C			ACCEPT.		

C/ 52 SC 52.9.7	P <b>452</b>	L <b>45</b>	# 81	C/ <b>52</b>	SC 52.9.9.1	P <b>453</b>	L 17	# 86			
Ohlen, Peter	Optillion			Ohlen, Pet	er	Optillion					
Comment Type T	Comment Status A			Comment	Туре Т	Comment Status A					
The definition of input dat	ta for TX testing could be mo	ore explicit. This	applies to 52.9.7 and	There	is not information	on on the test patterns for 10GB/	ASE-W.				
52.9.9.1.				Suggested	lRemedy						
SuggestedRemedy				Replace the second sentence of this sub-sub-clause with:"The transmitter (Tx) of the							
Replace the present para paragraph (at both places	graphs on p.452:45-46 and p.):"Compliance to the transm	o.454:24-25 with itter eye mask ha	the following as to be met while	system under test is tested for conformance using test pattern 2 defined in 52.9.1 for 10GBASE-R and the mixed frequency test pattern defined in 50.3.8.2 for 10GBASE-W.							
thesystem under test. The	ion of signal conditions is inp	out to the optical i	ofdata patterns	Response		Response Status C					
signalling speed, jitter, op allowed by this standard.	tical power, rise/fall times,etc	c. at the receiver	input that are	ACCE tested	PT IN PRINCIF for conformanc	PLE. Replace with: "The transm we using the pattern defined in 52	itter (Tx) of the s 2.9.1".	system under test is			
Response	Response Status C			C/ 52	SC 52.9.9.1	P 454	L 22	# 117			
ACCEPT IN PRINCIPLE	. See #19.			Dawe, Pier	S	Agilent					
CI 52 SC 52.9.7	P <b>452</b>	L <b>45</b>	# 19	Comment	Туре Е	Comment Status A					
Lindsay, Tom	Stratos Lightw	ave		Simila	r to D3.2 # 645:	delete pointless reference to "gr	ound"				
Comment Type T	Comment Status A			Suggested	IRemedy						
In response to a previous	comment by Jonathan, the	Rx input signal c	onditions during	Trunca	ate sentence aff	er "coupling".					
transmitter eye mask test	ing should be specified more	completely.		Response		Response Status C					
SuggestedRemedy				ACCEPT IN PRINCIPLE. Page number corrected.							
Replace the present para	graph with "Compliance to th	ne transmitter ma	ask of the eye shall	C/ 52	SC 52004	DAEA	1.24	# 20			
receiver of the system un	ider test. These signal condit	ions may include	e the ranges of data	Lindsay Tr	om	Stratos Lightw	L <b>Z4</b>	# 20			
patterns, signalling speed	l, jitter, optical power, rise/fal	l times, etc. at th	e receiver input that			Comment Status	ave				
are allowed by this standa	ard."			Comment	<i>Type</i> I	Comment Status A	Der immert nimmeller				
Response	Response Status C			transm	nitter iitter testin	a should be specified more com	oletelv.	Shaltions during			
ACCEPT IN PRINCIPLE	transmitter mask of the eye is to be met while any allowable combination of signal					SugaestedRemedy					
conditions is input to the	ese signal conditions	Replace the present paragraph with "Compliance to the transmitter jitter requirements shall be assured while any allowable combination of signal conditions is input to the optical receiver of the system under test. These signal conditions may include the ranges of data									
may include the ranges o times, etc. at the receiver	al power, rise/fall										

patterns, signalling speed, jitter, optical power, rise/fall times, etc. at the receiver input that are allowed by this standard."

### Response ACCEPT IN PRINCIPLE. Replace the present paragraph with "Compliance to the transmitter jitter requirements is to be met while any allowable combination of signal conditions is input to the optical receiver of the system under test. These signal conditions may include the ranges of data patterns, signalling speed, jitter, optical power, rise/fall times, etc. at the receiver input that are allowed by this standard."

Response Status C

C/ 52 SC 52.9.9.1 Lindsay, Tom	P <b>454</b> Stratos Lightwa	L <b>25</b> ave	# 18	C/         52         SC Table 52-15         P 440         L 31         # 101           Dawe, Piers         Agilent
Comment Type E Missing word	Comment Status R			Comment Type E Comment Status A Why budgets not budget?
SuggestedRemedy Insert "be" after "should	ש".			SuggestedRemedy Change budgets to budget
Response REJECT. Paragraph r	Response Status C removed.			Response Response Status C ACCEPT.
C/ 52 SC 52.9.9.2 Tom Lindsay	P 455	L <b>6</b>	# 52004	C/         52         SC         Table 52-15         P 440         L 3839         # 102           Dawe, Piers         Agilent
Comment Type E Reference in line 6, page	Comment Status A ge 455 of 52.9.9.2 should be to	Table 52-27 (no	ot 52-24).	Comment Type <b>T</b> Comment Status <b>A</b> Consistency of link power budgets per D3.2 #362
SuggestedRemedy See Comment	Popponso Status			SuggestedRemedy Change Channel insertion loss from 7.17 to 6.2 Change Allocation for penalties from 2.96 to 3.2.
ACCEPT.	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE. Resolved by PMD motions
C/ 52 SC Figure 5	2-3 P 435 Quake	L 35	# 1	C/         52         SC         Table 52-16         P 441         L 8         # 76           Ohlen, Peter         Optillion
Comment Type E Missing closing parenth SuggestedRemedy Re-instate the close bra	Comment Status R nesis on "Minimum transmit OM acket	IA (dBm)"		Comment Type <b>E</b> Comment Status <b>A</b> The footnote could benefit from some more clarity. Table 52-27 states that the attenuation for 1550nm B1 SMF links should be 11dB by reference to 52.14.3. The footnotes says the attenuation should be less than that. We know that we have the 0.35 dB/km from the fiber standard in mind, not the 11 dB. Others could be confused.
Response REJECT. Can't do wit irregularities in Excel. F error.	Response Status C hout newly calculated triple trac Please resubmit with new TTC a	le off curves due at Sponsor ballo	e to formatting t to correct formatting	SuggestedRemedy Change the second sentence of the footnote to:The fiber cable attenuation for such links needs to be less than that of standard B1 SMF fiber as specified in 52.14.1.
Cl 52 SC Table 52 Dawe, Piers Comment Type T Consistency of receive SuggestedRemedy Change receive sensitiv 1.78 to 2.2.	2-14 P 440 Agilent Comment Status A characteristics per D3.2 #362 vity from 0.0477 (-13.23) to 0.03	L <b>1317</b> 55 (-12.6) Cr	# <b>100</b>	Response Response Status <b>C</b> ACCEPT IN PRINCIPLE. Note "attenuation" and "loss" are synonyms. Remedy is not complete because there is no 0.35 dB/km anywhere in the text (and shouldn't it be 0.3 dB/km at 1550 nm?). Also, how come the baleful "with the exceptions noted in Table 52- 27" has crept back to p463? As I have pointed out before, this table is not a table of exceptions to IEC 60793-2, most of it is in agreement. Change to "The fiber optic cable shall meet the requirements of IEC 60793-2 and the requirements of Table 52-27 where they differ.
Response ACCEPT.	Response Status C			

			P802.3ae	Draft 3.3 Co	omments				
C/ 52 SC Table 5	5 <b>2-16</b> P 441	L 9	# 103	C/ 52	SC Ta	ble 52-19	P <b>442</b>	L <b>43</b>	# 144
Dawe, Piers	Agilent			Doug Col	eman		Corning Cabl	e System	
Comment Type E fiber fiber	Comment Status A			Comment The (	t Type	T Con	nment Status <b>A</b> Los Angeles agreed t	that a 40 kmopera	ting length would be
SuggestedRemedy Change "B1 SMF fibe	er" to "B1 single mode fiber"			an er Suggeste	igineered ie edRemedy	ting length to 3	y guidance on linkpov	fromTable 52-16 f	or 40 km operating
Response	Response Status C			lengt	hs.				or to kin operating
ACCEPT IN PRINCIP	PLE. Write out both types of B	1 fiber.		Response	е	Resp	oonse Status C		
C/ 52 SC Table 5 Dawe, Piers	52-18 P 442 Agilent	L <b>24</b>	# 106	ACCI the 4 colun	EPT IN PRI 0 km object nn would rea	NCIPLE. If t tive. Let us cor ad 15.0 30 9.	his table is informative sider showing both 30 9 5.1. (modified by a	e, it might be unh 0 km and 40 km c nother motion)	elpful to lose sight of olumns. 30 km
Comment Type T Consistency of receive 13.4, stressed receive SuggestedRemedy	Comment Status A re characteristics. Per 3.1.16a v e sensitivity should be 0.091 (-1	with VECP=3dB a 0.4) not -9.4.	ind NomSens OMA=-	Insert powe than t	t the footnot r budget are that of B1 S ge to	te as suggested e considered ei SMF fiber as sp	d but instead of "* Link ngineered links. Atten ecified in Table 52-27	ks longer than 30 Juation for such lin 7."	km for the same link ks needs to be less
Response ACCEPT IN PRINCIF	Response Status C PLE. Change stressed receive	sensitivity from -	9.4 to 0.093 (-10.3).	"* Lin need:	ks longer th s to be less	nan 30 km are o than that guara	considered engineered anteed by B1 single m	d links. Attenuationode fiber."	on for such links
C/ 52 SC Table 5	52-18 P 442	L <b>24</b>	# 107	Chan	ige note, tab	ole 52-16 simila	arly title of table 52-19	can now remain	as "budgets".
Dawe, Piers	Agilent			See a	also motions	s related to pov	ver budgets.		
Comment Type E Kill the spurious hund	Comment Status A lredths per resolution a long tim	e ago.		C/ <b>52</b> Dawe Pie	SC Ta	ble 52-19	P 442 Agilent	L <b>43</b>	# 109
SuggestedRemedy Change 0.1148 (-9.40	0) to 0.115 (-9.4) or 0.091 (-10.4	l) if another comn	nent is accepted	Comment Why	t Type	E Con	nment Status R		
Response ACCEPT.	Response Status C			Suggeste Chan	edRemedy	to budget - un	ess we show columns	s in Table 52-19 f	or 30 km and 40 km.
				Response	е	Resp	oonse Status Z		

REJECT. Withdrawn

CI <b>52</b>	SC Table 52-	- <b>19</b> P <b>4</b> 4	<b>2</b> L	5053 #	<sup>‡</sup> 110
Dawe, Piers	6	Agilent	t		
Comment 7 Consist NomSe allocatio	<i>ype</i> <b>T</b> ency of link pow ons OMA=-13.4, on for penalties i	Comment Status er budgets per D3.2 #3 at 1565 nm as stated, s 4.1 dB not 4.0.	A 362. Per 3.1.10 channel insertio	6a with VECP=3d on loss is 10.9 not	B and 11.0 and
Suggested	Remedy				
Change to 4.1 d	e Channel inserti B.	on loss from 11.0 to 10	0.9. Change allo	ocation for penalti	es from 4.0
Response ACCEF	PT.	Response Status	С		
CI 52	SC Table 52	- <b>20</b> P 44	14 L	58 #	<sup>‡</sup> 138
Dawe, Piers	5	Agilent	t		
Comment T	ype T	Comment Status	R		
this con SuggestedF At least	nment doesn't re Remedy for 10GBASE-L	late to a change in D3.	3 it could be he	Id over again.	JI.
Response		Response Status	С		
REJEC Actual t	T. As during contest data is also e	mment resolution after encouraged.	D3.2, must sta	bilize on test metl	nods first.
CI 52	SC Table 52-	- <b>21</b> P <b>4</b> 4	16 L	12 #	ŧ <u>12</u>
Lindsay, To	m	Stratos	s Lightwave		
Comment 7 Note is	<i>ype</i> <b>E</b> not clear.	Comment Status	Α		
Suggested Modify times th	Remedy note to "Upper ne loop bandwidt	frequency bound for 0 h of the receiver being	0.05 UI added si tested."	ne jitter should be	at least 10
Response ACCEF	РТ.	Response Status	С		

Cl <b>52</b> Dawe, Piers	SC Table 52-2	2 P 4 Agiler	<b>47</b> L nt	21 #	113					
Comment Ty an the	vpe E	Comment Status	Α							
SuggestedR delete: a	<i>lemedy</i> an									
Response ACCEP	Т.	Response Status	С							
CI 52	SC Table 52-2	6 P4	6 <b>2</b> L	25 #	146					
Doug Colem	an	Cornir	ng Cable Syster	n						
Comment Type         T         Comment Status         A           The October interim meeting in Los Angeles agreed that a 40 kmoperating length would be an engineered length without any guidance on linkpower budget.         A										
SuggestedRemedy Adjust the table operating length to 30 km. Insertfootnote from Table 52-16 for 40 km operating lengths.										
operatin	y lenguis.									
Response ACCEP dispersio	T IN PRINCIPLE.	Response Status Add second colum Ill common values m	<b>C</b> n under 1550 n nerged).	m for 30km, differii	ng only with					
Response ACCEP dispersio	T IN PRINCIPLE. on = 546 ps/nm (a SC Table 52-2	Response Status         Add second colum         Ill common values m         6       P 4	C n under 1550 n herged). 62 L	m for 30km, differir <b>45 #</b>	ng only with					
Response ACCEP dispersio Cl 52 Dawe, Piers	T IN PRINCIPLE. on = 546 ps/nm (a SC <b>Table 52-2</b>	Response Status Add second colum Ill common values m 6 P 4 Agiler	C n under 1550 n herged). 62 L ht	m for 30km, differir <b>45 #</b>	ng only with					
Cl 52 Dawe, Piers Conment Ty Connect	T IN PRINCIPLE. on = 546 ps/nm (a SC <b>Table 52-2</b> vpe <b>T</b> tions loss still wro	Response Status Add second colum Il common values m 6 P 4 Agiler Comment Status ng.	C n under 1550 n herged). 62 L ht A	m for 30km, differii <b>45 #</b>	ng only with					
Response ACCEP dispersio Cl 52 Dawe, Piers Comment Ty Connect SuggestedR	T IN PRINCIPLE. on = 546 ps/nm (a SC <b>Table 52-2</b> //pe <b>T</b> tions loss still wro ?emedy	Response Status Add second colum Ill common values m 6 P 44 Agiler Comment Status ng.	C n under 1550 n herged). 62 <i>L</i> ht A	m for 30km, differir 45       #	ng only with					
Response ACCEP dispersio Cl 52 Dawe, Piers Connect SuggestedR Use foot replacin calculate the "Add 1310 nm dB each	T IN PRINCIPLE. on = 546 ps/nm (a SC Table 52-2 ype T tions loss still wro Remedy thotes symbols fo g the two "Chann ed using cable ler ditional Insertion L n is calculated usi " Third note, 15	Response Status Add second colum II common values m 6 P 40 Agiler Comment Status ng. r 850, 1310, 1550 re el insertion loss" one gth, maximum atten .oss Allowed" from T ng cable length, max 50, as is. Alternati	C n under 1550 n herged). 62 L t A spectively. The ss. Now "Chanr juation, two con fable 52-10." an kimum attenuati	m for 30km, differin 45 # In have three footnot hel insertion loss at nections at 0.75 dB d "Channel insertio on, and two connect .14.2.1 ?	ng only with <b>120</b> btes 850 um is each and m loss at ctions at 1					
Response ACCEP dispersio Cl 52 Dawe, Piers Comment Ty Connect SuggestedR Use fool replacin calculate the "Add 1310 nm dB each Response	T IN PRINCIPLE. on = 546 ps/nm (a SC Table 52-2 ype T tions loss still wro cemedy thotes symbols fo g the two "Chann ed using cable ler ditional Insertion L n is calculated usi " Third note, 15	Response Status         Add second colum         Ill common values m         6       P 44         Agiler         Comment Status         ng.         r 850, 1310, 1550 re         el insertion loss" one         gth, maximum atten         .oss Allowed" from T         ng cable length, may         50, as is.       Alternation         Response Status	C n under 1550 m herged). 62 L t A spectively. The es. Now "Chann ution, two con "able 52-10." and kimum attenuati vely, refer to 52 C	m for 30km, differin 45 # an have three footnot hel insertion loss at nections at 0.75 dB d "Channel insertio on, and two connect .14.2.1 ?	ng only with <b>120</b> Dtes 850 um is each and on loss at ctions at 1					



ACCEPT.

C/ 53	SC 53.9.10	P <b>492</b> Strotos Lightwovo	L	# 13	C/ 53	SC Table 53	3-13	P 500	L 28	# 149
Linusay, ru					Doug Cole	nan 			System	
Comment Type       T       Comment Status       R         The jitter and stressed Rx testing sections in clause 52 have been combined. This approach should be adopted for clause 53 as well. (This was a huge change).         SuggestedRemedy         Refer to subclause 52.9.10 of D3.3 and any modification resulting from D3.3 balloting. The change was in response to comment 633 during D3.2 balloting.					Comment Modal	<i>Type</i> E BW wavelength	omitted.	atus <b>A</b>		
					SuggestedRemedy Insert 1300 nm as the modal BW wavelength. Response Response Status C					
Response		Response Status C			ACCE	PT.				
REJEC	CT.				CI 53	SC Table 53	3-14	Р	L	# 10002
Clause differen clarifica	53 has the same ntly. Clause 53 m ation.	methodology as clause 52, howe hay revisit this issue later if it is co	ver, it has been v ncluded that the s	written subclause needs	Eric Grann <i>Comment</i> _ Note in _ the las	<i>Type</i> <b>E</b> 1 Table 53-14 ne t draft.	Comment State	atus <b>A</b> d to match cla	ause 52. This sho	ould have be done in
Eric Grann	30 33.3.4	7 400	L	# 10001	Suggested	Remedy				
Comment	Туре Т	Comment Status A			Add se	cond statement	to 2nd note in Ta	ole 53-14		
Clause minimu implem	53 needs a subclum extinction ration ration	lause on the measurement of the owas added in the last draft, an op	extinction ratio. Notical measureme	When the ent was not	"Using Response	0.5 dB/km may	not support opera Response Sta	tion at 10 km tus <b>C</b>		
Suggested	Remedy									
Add ne	Extinction ration	9.4 that reads			<i>CI</i> <b>53</b> Eric Grann	SC Table 53	3-8	P <b>483</b>	L	# 10003
53.9.4 Extinction ration measurements Extinction ratio shall be measured using the methods specified in TIA/EIA-526-4A. The extinction ratio is measured under fully modulated conditions."				<i>Comment</i> The V	Comment Type E Comment Status A The VECP was not entered correctly from the new link model.					
Also add the PIC that corresponds to this shall statement					Suggested Chanc	Remedy e 0.8 to 1.0dB				
Response ACCE	PT.	Response Status C			Response ACCE	PT.	Response Sta	tus C		
Cl <b>53</b> Lindsay, To	SC Figure 53	-3 P 485 Stratos Lightwave	L	# 14						
Comment Clause	<i>Type</i> <b>T</b> 52 has modified	Comment Status <b>A</b> the bathtub curve range to be below	ow 1E-6.							
Suggested Modify 4.	Remedy bathtub curves to	o match clause 52.This change sh	nould also be appl	lied to Figure 53-						
Response ACCE	PT.	Response Status C								