

SuggestedRemedy

I'll try to show stats of pulse splitting amount at the meeting. Consider split-symmetric candidate 1 from http://ieee802.org/3/aq/public/oct05/ewen_1_1005.pdf. Or much better, remove the split-symmetric test.

Response Response Status U

REJECT.

See response to comment 4.

d) Change Qsq to represent tx RIN adjusted down by RIN factor:5

e) Remove Qsq from rx test: 0

Change Qsq value on page 35, line 21 to 26.3 And use this value for both the sensitivity and overload tests

Change note on p47 such that: test signal has Qsq of 45.6 for the pre-cursor 37.2 for the symmetrical 47.0 for the post-cursor

Further, the committee believes that the split symmetric test is required, as such fibre responses do occur.

For: 20 Against:3 Abstain:4



Comment Type TR Comment Status R

D3.0 comment 23 (formerly 88): 'The Symmetrical tap weight values would benefit from further work.' When we chose this stressor it was intended as the easiest of the three, by a small amount. Because the calculations did not include the effect of transmitter noise, while the CSRS test has significant deliberate transmitter noise, it turns out that it is the hardest of the three. As only a small proportion of relevant impulses are split, this does little for coverage and encourages people to 'build to the test' not to what's useful to the customer. Also this strong sensitivity to noise makes for calibration inaccuracy.

SuggestedRemedy

Split-symmetric candidate 1 from http://ieee802.org/3/aq/public/oct05/ewen_1_1005.pdf is a bit better behaved with transmitter noise. Or much better, remove the split-symmetric test.

Response

Response Status U

REJECT.

In a dynamic channel equal split responses do occur.

On balance the comment resolution committee believes that the present definition of the symmetrical stressor is an adequate choice and that it is late in the standards development process to make a change.

Yes: No: 2 Absta	18 ain: 6			
C/ 68	SC 68.5.3	P 35	L 20	# 5
DAWE, P	IERS J G	Individual		

Comment Type TR Comment Status R

D3.0 comments 24 (formerly 62) on RIN specification and 43 (formerly 82) on transmitter signal to noise ratio for CSRS. We have overlooked the RIN factor in calculating Qsq: effectively, we have assumed a factor of 1 while Gigabit and 10 Gigabit Ethernet assumed 0.7 or 0.55. Anyway, it is not feasible to make transmitters that are all at worst RIN.

SuggestedRemedy

I believe the Tx RIN spec is OK but the element of RIN in Qsq should be reduced to sqrt(0.7) or less vs. present values, for this effect.

Response Response Status U

REJECT.

See response to comment 3.

CI 68	SC 68.5.3	P 35	L 20	# 6
DAWE, P	IERS J G	Individual		

Comment Type TR Comment Status A

D3.0 comment 24 (formerly 62) on RIN specification and 43 on transmitter SNR for CSRS. We choose Qsq by calculating the effect of RIN and modal noise. Our estimate of modal noise is very pessimistic. Using the Monte Carlo technique we can calculate a reasonable upper estimate of modal noise, as we can for connector loss. We see the same very skewed distribution, where the great majority of cases have negligible modal noise, and on the other hand a tiny minority would be predicted to fail through modal noise even in a non-equalised link such as 1000BASE-L or 10GBASE-S. Per comment 29 (formerly 61) 'Straw poll 1: There is margin within the link budget.'

SuggestedRemedy

Reduce the element of modal noise in Qsq.

Response	Response Status	U
ACCEPT IN PRINCIPLE		

See response to comment 3.

C/ 68	SC 68.5.3	P 35	L 20	# 7	
DAWE, PIE	RS J G	Individual			

Comment Type TR Comment Status R

Don't make the 802.3ae stressed eye mistake again! D3.0 comment 34 (formerly 109): 'This test is far too complicated to be readily done by most development labs'. and 43 on transmitter signal to noise ratio for CSRS. I agree that it is complicated. Also, this use of deliberate noise loading is new for an optical standard (there is something a bit like it with optical amplifiers) - and not yet proven in multiple labs. Getting the noise wrong, in amount or color, can lead to significant measurement errors or even error floors (it's the noise before the transversal filter that causes trouble rather than after). Giving more information about the noise, as in p47 line 51, helps with amount but not color, and still the test is over complicated. Calibrating the noise color would require a spectrum analyzer. In short, we are not likely to get agreement between customer and supplier with such an involved test. Maybe the industry would be better served by more consistent measurements without deliberate noise loading. This would correspond better to the usual case in service, where connector loss is small, modal noise is small, and RIN is several dB better than spec.

SuggestedRemedy

Remove the noise loading from CSRS. Don't reduce the sensitivity limits much because of this change - they are already low as compared with expected OMAs in service.

Response Response Status U

REJECT.

See response to comment 3.

A receive test without noise loading is not considered to be adequately stressful.

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

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

Comment ID # 7

Page 2 of 12 23/03/2006 19:08:37

C/ 68	SC 68.5.3	P 35	L 27	# 8	C/ 68	SC 68.5	P 31	L
DAWE, PIE	ERS J G	Individual			DAWE, PI	ERS J G	Individual	

Comment Type TR Comment Status R

D3.0 comment 34 (formerly 109): 'This test is far too complicated to be readily done by most development labs'. One item of little value is the split-symmetric stressor, because so few of the channels an equalizer would have to deal with are like this: they don't occur with OM3 and while they are reasonably common with OM1, center launch OR OM1, offset launch - with joint launch, almost every time one shows up, the other launch is better, and the equalizer doesn't have to deal with it. Further, in reality only a small fraction of split pulses would have a harmonic relation to the line rate. I expect smooth-symmetric channels would be more common, but if an equalizer can cope with our pre and post stressors, it should be OK with smooth sym of the same TWDP - we have considered adding this before and chose not to.

SuggestedRemedv

Remove the split-symmetric test.

Response Response Status U

REJECT.

See response to comment 4.

CI 68	SC 68.5	P 31	L 37	# 9
DAWE, P	IERS J G	Individual		

Comment Type TR Comment Status R

D3.0 comment 70 (formerly 84) describes different kinds of 50 um fiber. It may help readers to know more about this: several grades of 50 um fiber have been sold where the 1300 nm bandwidth is better than the 850 nm bandwidth, and these fibers form part of the 'installed base'. For example, it will be of interest to some that 10GBASE-LRM should achieve 300 m on 400/1200 fiber, per our conservative methodology.

SuggestedRemedv

If such grades of fiber are of interest, give guidance, perhaps in a NOTE under this paragraph if we don't have precise enough information for the table: NOTE--A reasonable range for 400/1200 multimode fiber would be 300 m.

Response

Response Status C

REJECT.

The comment refers to one of a number of grades of fiber that have not been selected for structured cabling standards.

(400/400 fiber in included as there is a precedent for its inclusion in 802.3)

CI 68	SC 68.5	P 31	L 37	# 10
DAWE, PI	ERS J G	Individual		

Comment Type TR Comment Status R

D3.0 comment 70 (formerly 84) and 117 (formerly 52) describe different kinds of 50 um fiber. If it is true that reject OM3 sold as OM2 is significantly worse than OM2, perhaps add a NOTE. On the other hand, is OM2 that special? Maybe we should just point out that MMF may vary.

SuggestedRemedy

Perhaps the readers should be warned with an informative NOTE--Users may wish to assure themselves of the characteristics of certain OM2 fiber for use at 1300 nm. While multimode fibers cover a wide distribution, this is further widened by different manufacturing strategies for OM2.

Response Response Status C

REJECT.

This comment was WITHDRAWN by the commenter.

Accpeted without objection.

C/ 68	SC 68.5.3	P 35	L 27	# 11	
DAWE, PIER	RS J G	Individual			

Comment Type TR Comment Status R

D3.0 comment 23 (formerly 88): 'The Symmetrical tap weight values would benefit from further work.' When John Ewen did his brilliant work, searching for stressors that are fair to different length equalizers, it was all done without the noise loading. Because the receiver performance with split-symmetric stressor is more affected by noise loading than the other stressors, it may be that this stressor is less fair than the others with noise loading.

SuggestedRemedy

As split-symmetric candidate 1 from http://jeee802.org/3/ag/public/oct05/ewen 1 1005.pdf is a bit better behaved with transmitter noise, consider changing to it. Or much better, remove the split-symmetric test.

Response Response Status U

REJECT.

See response to comment 4.

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

Comment ID # 11

Page 3 of 12 23/03/2006 19:08:37

C/ 68	SC 68.7.2	P 51	L 53	# 12	C/ 99	SC 99	P 4	L 32	# 14
DAWE, P	IERS J G	Individual			DAWE, PI	ERSJG	Individual		
Commen	t Type T	Comment Status R		weak weatsk sevels sev	Comment	Type E	Comment Status A		
we gi place dual	ive guidance on veholder. (There an launch).	when this is likely to succeed? re TRs objecting to dual launch	In the proposed of D3.0, althoug	remedy, '50%' is a h I am still in favor of	Suggested Suggested Shift-a	a dRemedy a			
Suggeste	edRemedy				Response		Response Status C		
In 68 less t user's	.7.2, insert after t than 50% of the c s choice.'	the first sentence of the NOTE operating range given in table 6	: 'However, it is e 68-2, either laund	xpected that for links h can be used at the	ACCE See re	PT IN PRINCIP	PLE.		
Response	e	Response Status C							
REJE	ECT.				C/ 99	SC 99	P 7	L 13	# 15
This	comment was W	ITHDRAWN by the commenter	r		DAVE, FI				
1113		THERAWIN By the commenter			Comment	<i>Type</i> ► Ise about 3/4 of	Comment Status A	t sublavers we	need comething like
Pass	ed without object	tion.			the str	ricken text. How	vever, a phrase like 'adds new' v	vill become obse	plete. I don't believe
CI 99	SC 99	P 3	L 32	# 13	that be subsc	efore EFM, IEE riber access ne	E Std 802.3 format frames were twork.	e not permitted (i.e. forbidden) in a
					Suggested	dRemedy			
The t	hird column of th	e table below is to be			Sectio 1000 I	n Five specifies Mb/s, and define	s further physical layers and sub es services and protocol eleme	players for opera nts for use in a s	ation from 512 kb/s to subscriber access
Suggeste	edRemedy				Response	IK.	Poopopoo Statua C		
The t	hird and fourth co	olumn of the table below are to	be		ACCE				
Response ACCI	e EPT IN PRINCIP	Response Status C LE.			See re	esponse to com	ment 13.		
The f stand	ront matter is not lards to have cor	t part of the standard as noted sistent front matter, this comm	at its beginning. Thent has been for	For the IEEE 802.3 warded to the WG	<i>CI</i> 99 DAWE, PI	SC 99 ERS J G	P 9 Individual	L 7	# 16
			cation editor.		Comment Should	<i>Type</i> E d the officers be	Comment Status A elisted here?		
Motic	on:				Suggested	dRemedy			
The 8	302.3aq commen	t resolution committee gives th	ne editor discretio	on to resolve E	?	-			
comn	nents on 802.3ac	g Draπ 3.1.			Response		Response Status C		
Move	ed: Nick Weiner				ACCE	PT IN PRINCIF	PLE.		
Pass	ed without object	a iion.			See re	esponse to com	ment 13.		
) to obaical requir	ad ER/aditorial required CR/	reneral required	T/tashniad E/aditarial C/a					

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

Comment ID # 16

Page 4 of 12 23/03/2006 19:08:37

CI 45 SC	45.2.1.10.2	P 20	L 20	# 17	C/ 45	SC 45.2.3.15	5.7	P 22	L 36	# 20
DAWE, PIERS J C	5	Individual			DAWE, P	IERSJG		Individual		
Comment Type	E Comm	ent Status A			Comment	tType E	Commen	t Status A		
The description	ons of ability bits are	e not consistent (we PMA/PMD is able	didn't have time	to discuss this in the	Shou	ld be 45.2.3.15.1				
'PMA/PMD is	able to support a 10	GBASE-CX4 PMA	/PMD type'. "Sup	port' is not precise	Suggeste	dRemedy				
(that's why we	e sometimes use it i	n objectives!). Nor a	accurate: 'The flo	or supports the table,	and	d existing subclau	uses 45.2.3.1	5.1 to 45.2.3.15.0	6 become 45.2.3	.15.2 to 45.2.3.15.7
pattern testing	supports Linux, the a' This should be h	nodem supports F	.3ap3an. and ir	to support PRBS31	Response	e	Response	Status C		
SuaaestedRemed	lv		,,		ACCE	EPT.				
Change back	to 'operate as 10GE	BASE-CX4.'			CL 45	SC 45 2 2 11	1.5	P 21	/ 20	# 21
Response	Respor	se Status C			DAWE P	IERS I G	1.5	ndividual	L 39	# 21
ACCEPT	Respon				Common		Common			
						<i>i Type</i> E uld be beloful to n	Comment	nly transmit side	is involved (no e	auivalent receive side
CI 45 SC 4	45.2.3.11.5	P 21	L 37	# 18	testin	g, no error counti	ng registers)	as this is a devia	ation from practic	e with other patterns.
DAWE, PIERS J C	3	Individual			Suggeste	dRemedy	/			
Comment Type	E Comm	ent Status A			Perha	aps 'is able to sup	port PRBS9 p	pattern testing of	its transmitter'?	
This should be 45.2.3.11.3 to	e 45.2.3.11.2, and e 45.2.3.11.5.	existing 45.2.3.11.2	to 45.2.3.11.4 sh	ould become	Response	9	Response	Status C		
SuggestedRemed	ly				ACCE	EPT IN PRINCIPL	_E.			
Per comment					Revis	ed text for subcla	ause:			
Response	Respon	se Status C			\\/hor	rood oo o ono h	it 0 00 0 india	ates that the DC	C is able to supr	art DDDC0 nottorn
ACCEPT.					testin	g of its transmitte	er. When read	as a zero, bit 3.	32.3 indicates the	at the PCS is not able
					to sup	oport PRBS9 patt	ern testing of	its transmitter. It	the PCS is able	to support PRBS9
C/ 45 SC 4	45.2.3.13	P 22	L 1	# 19	patter	rn testing of its tra	ansmitter then	the pattern gen	eration is control	led using bit 3.42.6.
DAWE, PIERS J C	5	Individual			C/ 45	SC 45.2.3.15	5.7	P 22	L 38	# 22
Comment Type 45.2.3.13	E Comm	ent Status A			DAWE, P	IERS J G	0	Individual		
SuggestedRemed	lv				Comment	<i>i Type</i> E	Commen	t Status A	a rafaranaa num	haria a hitaata
45.2.3.15	<i>,</i>				subcl	ause.	subclauses,	need to know in	e reference num	ber is a bit not a
Response	Respon	se Status C			Suggeste	dRemedy				
ACCEPT.					Chan	ge 'testing (indica	ated by 3.32.3)' to 'testing adv	ertised in bit 3.32	2.3'
					Response	e	Response	Status C		
					ACCE	EPT IN PRINCIPI	_E.			
					test	ing (indicated by	bit 3.32.3)			

Comment ID # 22

C/ 45	SC 45.2.3.15.7	P 22	L 41	# 23	C/ 49	SC 4	49.3.5	P 26	L 34	# 26	
DAWE, PIER	SJG	Individual			DAWE, P	IERSJO	j	Individual			
Comment Typ	pe E	Comment Status A			Comment	t Type	Е	Comment Status A			
I'm not co	onvinced by 'Whe	en bit 3.42.6 is set to zero t	he PCS shall no	t transmit PRBS9.' It's	Rows	JT8 and	I JT9 sho	uld be underlined			
penectly		ansmit PRD39, by leeding	it into the PCS.		Suggeste	dRemed	У				
Suggesteare	emedy	and Cotting hit 2 42 6 to a	are shall disable	the DDDC0 test	per co	omment					
pattern m testing is	node on the rece disabled on the	ive path of the PCS.' or 'W transmit path.'	hen bit 3.42.6 is	set to a zero, pattern	Response ACCI	e EPT.		Response Status C			
Response		Response Status C									
ACCEPT	IN PRINCIPLE.				CI A	SC /	4	P 27	L 8	# 27	
\A/ban hit	2 42 6 is not to -	rara tha DCC aball not gan	arota DDDC0		DAWE, P	IERS J G	5	Individual			
when bit	3.42.0 IS SEL 10 2	zero the PCS shall hot gen	erale PRD59.		Comment	t Type	Е	Comment Status A			
C/ 45	SC 45.2.3.15.7	P 22	L 42	# 24	In 802	2.3-2005	, the bibli	ography is in alphanumeric of	rder. Is this char	nging?	
DAWE, PIER	SJG	Individual			Suggeste	dRemed	У				
Comment Typ	pe E	Comment Status A	9 material to Cla	uco 40	lf not, the fo	this wou llowing n	uld be B4 new entry	6, (B46 and B47 would chang into the bibliography, in alpha	e numbers), and anumeric order:'	d rubric would be 'Ins	ert
we need	,	nom the Clause 45 F KDS		use 49.	Response	9		Response Status C			
SuggestedRe	emedy			The balancies of the	ACCE	EPT.					
PCS whe	en in PRBS9 test	-pattern mode is specified	in Clause 49.'.	The behavior of the							_
Response		Response Status C			C/ 68	SC 6	58.6.1	P 37	L 1	# 28	
ACCEPT					DAWE, P	IERSJO	j	Individual			
	-				Comment	t Type	т	Comment Status A			
CI 49 DAWE, PIER	SC 49.2.2 SJG	P 25 Individual	L 17	# 25	Now to other	that we h hand, I'n	ave mad n not den	e the PRBS9 normative (if sti nanding a 'shall'.	ll optional), this '	should' is weak. On t	he
Commont Tu		Commont Statua			Suggeste	dRemed	У				
	pe E	continient Status A	ic no DDBS0 roc	oivo sido tost pattorp	Chan	ge 'shoul	ld be ' to	'is'.			
mode?		s sentence, because there			Response	e		Response Status C			
SugaestedRe	emedv				ACCE	EPT.					
Perhaps i	insert '(if applica	ble)' after 'simultaneously'?	,								
Response		Response Status C									
ACCEPT											

C/ 68 SC 68.5 CUNNINGHAM, DAVI	P 35 D G Individua	L 27 al	# 29	C/ 68 CUNNING	SC 68.5 HAM, DAVID G	P 35 Individual	L 27	# 30
Comment Type TR	Comment Status R			Comment	Type TR	Comment Status R		
This is a pile-on co	omment to comment D3.0 nu	mber 24.		This is	a pile-on to D3.	0 comment 34.		

The split symmetric stressor is a pathological and extremely unrealistic form of stress. This is made worse by the unrealistically large noise loading that is used for stress testing. Additionally. I have received feedback from many implementers that this test will severely penalise and will likely outlaw low latency, low power CMOS implementations including future highly integrated solutions.

It is also noted that the noise loading applied is not representative of a reasonable test configuration: the amount of modal noise assumed could only occur under rare combinations of launch and link connector configurations.

SuggestedRemedy

Remove the split symmetric stressor and reduce the noise loading for the remaining stressors by at least 6 dB electrical.

Response Response Status C

REJECT.

See responses to comment 3 and 4, and also gomatam 1 0306 regarding CMOS implementations.



The stress test is too complex.

In particular the noise loading is bad for a few reasons. Firstly, the noise loading has been effectively dead reckoned by the committee. A slight slip and perfectly good implementations will be ruled out. It already appears that this may be happening as I have received feedback that CMOS implementations have difficulty with the split symmetric stressor especially with noise loading. Secondly, the noise loading complicates the test for example even if its level is correct its colour must be controlled too.

Also, Ethernet conformance test should check that an implementation is reasonable they should NOT be attempting to test worst-worst case corners as the current stress test seems to have been designed to do.

The split symmetric test with noise loading is pathological in all these respects.

Removal of the split symmetric stressor and noise loading would substantially simplify the stress testing.

SuggestedRemedy

Remove the split symmetric stressor.

Remove all noise loading from the stress tests by deleting the Q specification in table 68-5 and everywhere else in the draft.

Response

Response Status C

REJECT.

See response to comment 29.

C/ 68 SC 68.5.1 P 33 L 31 # 31 DUDEK, MICHAEL T Individual	C/ 68 SC 68.6.11 P 49 L 12 # 32 BHOJA, SUDEEP Individual Individual							
Comment Type TR Comment Status R	Comment Type TR Comment Status X							
This is a pile on comment to comment 113 to draft 3.0. In a straw poll recorded in the	Currently jitter is added only to a clean eye. Please see comments 45 & 66 on D3.0							
discussion on comment 29 to draft 3.0 it was agreed that there is margin within the link	SuggestedRemedy Jitter needs to be included in the comp. stressed rx. To keep the test simple to implement a single value (375KHz,1UI) for the jitter is proposed.							
budget. (Agree 14, Disagree 1, Abstain 2). This margin should be used to reduce the cost of LRM implementations. One way to do this was suggested in comment 29. Another way which was suggested in comment 113 was to increase the TWDP value. A relaxation in this value would improve the vield of LR modules and could enable SFP+ form factor								
products by allowing somewhat more deterministic jitter in the Tx.	Proposed Response Response Status W							
SuggestedRemedy	Straw poll:							
Change the Max value of TWDP in table 68-3 from 4.7dB to 4.9dB.	Those in favour in accept or accept in principle with test point TBD: 7							
Response Response Status II	Those in favour of rejection: 7							
REJECT.	Proposed reject: Combining jitter tolerance test with comp. rx test would preclude an inexpensive XAUI based tester.							
Straw poll 1								
(Chicago rules)	For: 12							
a) Leave TWDP value as in draft 3.1: 15 b) Increase value of TWDP: 6	Against: 5 Abetain: 4							
c) Require trade-off between TWDP and tx OMA if TWDP is greater than 4.7dB: 14								
Straw poll 2 Allow reduced tx OMA for TWDP value smaller than 4.7dB In favour: 8 Not In favour: 11 Straw poll 3:	Proposed reject: Combining the jitter tolerance test with the comp. rx test would complicate the test without proven significant benefit. For: 11 Against: 7 Abstain: 3							
(One vote per committee member) i) Leave TWDP value as in draft 3.1: 15 ii) Require trade-off between TWDP and tx OMA if TWDP is greater than 4.7dB: 10	There is no consensus within the comment resolution committee to make a change.							
Proposed reject:								

See response to comment 38.

For: 15 Against: 3 Abstain: 2

C/ 00	SC O	Р	L	# 33	CI 68	SC 68.5.1	P 33	L 16	# 35				
GHIASI, ALI		Individual			LINDSAY,	THOMAS A	Individual						
Comment Ty	vpe TR	Comment Status R			Comment	Type TR	Comment Status R						
This is pile on comment based on draft 3.0 comment #66. The proposed remedy provided does not resolve or address comprehensive jitter tolerance.						This is a pile-on to comment 29 from D3.0. I feel that a transmitter with better waveform properties should be rewarded with being able to reduce its OMA by up to 1 dB. This type							
SuggestedR	Remedy				laser s	sources.	ILR. This can reduce powe	er, Elvii, etc. and h	eip enable alternative				
Propose to accept remedy as provided in comment number 66 against draft 3.0.						SuggestedRemedy							
Response REJECT	г.	Response Status W			o Change Value in line 16 to -5.5 dB. o Add a new line below line 16: "Launch power in OMA(b) min = -9.2+TWDP. o In Table 68-4, change Lowest power in OMA min to -7.4 dBm. o Modify Figure 68-5 (Figure will be available separate from MyBallot).								
This is re	epeat of a pevic	ous comment, by the comme	enter, presented	d without new evidence.	Response		Response Status U						
See also	the response t	to comment 32.	cor complexity.		REJECT.								
Yes: 12 No: 0 Abstain:	9				Propo The co stage,	sed reject. ommittee is not would be worth	persuaded that any potentia the added complexity in the	al benefit from sucl e specification.	h a change, at this late				
CI 68	SC 68.5.3.1	P 33	L 31	# 34	For: 1	3							
Inano, Shige	eru				Again	st: 5 in: 3							
Comment Ty	vpe T	Comment Status R			Absia	in. 5							
Sumiton commer must be Sumiton	no has been rev hts. Internal test increased for a no would like to	viewing D3.1 of 802.3aq (LR ting and analysis has shown acceptable module yields and pile-on to comment #113 ar	M) and re-circu that the TWDP d costs. Therefo d #121.	lated Plimit pre,	Propo The co added	sed reject. ommittee is not l complexity in tl 1	persuaded that a change, a ne specification.	at this late stage, w	vould be worth the				
SuggestedR	Remedy				Against: 4								
We reco	mmend that the	e TWDP limit be increased to	o 5.2 dB.		Absta	in: 2							
Response		Response Status C											
REJECT	Г.				Propo The co	sed reject. ommittee is not	persuaded that the propose	ed trade-off would r	esult in a tangible				
Propose See resp	ed reject ponse to comm	ent 38.			Eor: 1	ι. 3							
Against:	4				Again	st: 4							
Abstain:	3				Absta	in: 3							

LINDSAY, THOMAS A		L 37	# 36	C/68 SC 68.5.1	P 33	L 31	# 38			
,	Individual	- •1		LINDSAY, THOMAS A	Individual	- • •				
Comment Type T	Comment Status A			Comment Type TR	Comment Status R					
Mike McConnell suggest and re-number the previc previous format, but I did However, I raise it here to	ed that I number (insert) the us paragraphs 45.2.3.11.2 not do it as I was reluctant to the committee for conside	 new PRBS9 particular 4 up to 45.2.3.1^o to re-number existence to ration. 	ragraph as 45.2.3.11.2 1.3-5. This fits with the isting clauses.	This is pile-on to con the previous ballot sl increase yields and o	nment 121 from D3.0. I still belie nowed belief that there is residua other options.	ve TWDP shou I budget and w	Id be increased. Polls in ve should use it to			
SuggestedRemedy				Increase the TWDP	imit to 5 dB.					
Insert the new PRBS9 pa paragraphs 45.2.3.11.2-4	ragraph as 45.2.3.11.2 and up to 45.2.3.11.3-5.	t re-number the c	other/previous	Response	Response Status U					
Response	Response Status C			REJECT.						
ACCEPT IN PRINCIPLE See response to commen	ıt 43			Proposed accept in p Accept TWDP increa	principle, used limit to 5dB, along with a req a amount that the TWDB value as	quirement to in	crease the minimum			
CI 45 SC 45.2.3.15.7 LINDSAY, THOMAS A	P 22 Individual	L 37	# 37	 OMA by two times the amout that the TWDP value exceeds 4.7dB. For: 12 Against: 10 						
Nike McConnell suggest number the previous para previous format, but I did However, I raise it here to SuggestedRemedy Insert the new PRBS9 pa 45.2.3.15.1-6 up to 45.2. Response ACCEPT IN PRINCIPLE See response to commen	graphs 45.2.3.15.1-6 up to not do it as I was reluctant the committee for conside ragraph as 45.2.3.15.1 and 3.15.2-7. <i>Response Status</i> C tt 43	3 reenumber the p	his fits with the sting clauses.	For: 13 A trade off between comment. On this to off can be made. For: 13 Against: 6 Abstain: 5 Proposed accept in p Accept TWDP increa OMA by two times th For: 10 Against: 9 Abstain: 1 Proposed reject.	ft 3.0, comment 121. TWDP and OMA (min) has been bic, the committee has not seen principle, used limit to 4.85dB, along with a e amout that the TWDP value ex	considered in sufficient evide requirement to cceeds 4.7dB.	responding to this ence that such a trade			

					-					
CI 68	SC 68.5.1	P 33	L 31	# 39	CI 45	SC	45.2.1.10	P 20	L 27	# 41
EWEN, JO	HN F	Individual			GROW, R	OBERI	M	Individual		
Comment	Type TR	Comment Status R			Comment	Туре	GR	Comment Status A		
This co #113 b there v	omment is not di by T. Lindsay on was no consensu	rected towards a change in D the initial ballot. In the respon is to change the TWDP value	raft 3.1, but is in se to comment # ; however there	regard to comment 113 it was noted that was consensus that	Impro from 8 includ	ve edito 302.3an led in th	or's note, I ca , or is this re e first amen	an't understand what it is sayi edundant with a change also i dment published?	ng about P80 n 802.3an ar	2.3an. Is the base text d should only be
link ma specifi	argin is available cations.	. Any margin that exists shoul	d be used to rela	ax the current	Suggeste	dRemed	dy +			
Suggested	Remedy				566.0	ommen	l	_		
This is don't h	sue has been de have a specific pr	bated at length without achie roposal to put forward at this t	ving a consensu ime.	s to change the draft. I	Response ACCE) Ept in f	PRINCIPLE.	Response Status W		
Response REJE(CT.	Response Status C			Revis	ed text f	for editor's r	note:		
This co	omment was WI	THDRAWN by the commenter			Editor new te redun	's Note: ext by P dant if F	: (to be remo 802.3an. Th 9802.3an is	oved prior to publication) Para ne change instruction here, re published before P802.3aq.	graph 45.2.1 garding 45.2	.10.2 is also included as 1.10.2, will become
<i>CI</i> 44 GROW, R0	SC 44.3 OBERT M	P 15 Individual	L 3	# 40	<i>Cl</i> 45 GROW, R	SC OBERT	45.2.3.13 M	P 22 Individual	L 1	# 42
Comment Table	<i>Type</i> ER numbers are hyp	Comment Status A bhenated (emdashed).			Comment Incorr	<i>Type</i> ect subo	ER clause numl	Comment Status A		
Suggested Chang	<i>IRemedy</i> je Table 44.2 to ⁻	Table 44-3.			Suggester Chang	dRemed ge to 45	dy 5.2.3.15			
Response Response Status U ACCEPT.					Response ACCE	e EPT.		Response Status W		
					<i>CI</i> 45 GROW, R	SC OBERT	45.2.3.15.7 M	P 22 Individual	L 37	# 43
					<i>Comment</i> This p	<i>Type</i> places n	E ew text out	Comment Status A of sequence with bit definition	s.	
					Suggester Shoul	dRemed d be ins	<i>dy</i> sert new 45.	2.3.15.1 and renumber as req	uired.	
					Response ACCE	e PT.		Response Status C		

<i>CI</i> 49 GROW, RO	SC 49.3.5 BERT M	P : Individ	26 dual	L 33	# 44
Comment T	ype ER I rows are not un	Comment Status derscored.	Α		
SuggestedF See cor	<i>Remedy</i> nment				
Response ACCEP	Т.	Response Status	w		