C/ 68	SC 1	P 2	L 8	# 8	8
Piers Dawe		Agilent			

Comment Type T Comment Status X

Problem with 'In order to form a complete physical layer, this PMD shall be combined'. This clause does not define a complete physical layer, it defines the PMD alone (although a few oddball things like electromagnetic compatibility are categorised as PMD issues because the port is on the PMD). If a requirement of what constitutes a complete physical layer is needed, and I don't see the need, it must go elsewhere. Further, it is not clear what 'combined' means. The PMD does not connect to the PCS but to the PMA.

SuggestedRemedy

Change 'In order to form a complete physical layer, this PMD shall be combined with the 10GBASE-R physical coding sublayer, specified in 49, and optionally with the management functions that may be accessible through the management interface defined in 45.'

'A PMD is connected to the 10GBASE-R PMA of 51, and to the medium through the MDI. A PMD is optionally combined with the management functions that may be accessible through the management interface defined in 45 or by other means.'

Proposed Response Response Status **O**

CI 68	SC 10	P 13	L 19	# 37
Piers Dav	ve	Agilent		
Comment Wher work	<i>t Type</i> E n writing clause 5 with. When writi	Comment Status X 2 we found the structure of the ng 58, we rebuilt the structure.	ese cabling sub	clauses in 38 hard to
Suggeste	dRemedy			
Cons	ider re-ordering	hese sections if it would impro	ve the documer	nt
Proposed	l Response	Response Status 0		
C/ 68	SC 10	P 13	L 3	# 36
Piers Dav	ve	Agilent		
Commen	t Type T	Comment Status X		
Our fi provie	iber optic cabling ding an upgrade	model must by definition be the for the installed base.	ie same as clau	ise 38's as we are
Suggeste	dRemedy			
Chan same	ge to: 'The fiber model).'	optic cabling model is shown ir	n Figure 38-7 (F	igure 52-14 shows the

Proposed Response Response Status **O**

C/ 68 SC 10	P 13	L 32	# 38	
Piers Dawe	Agilent			
Comment Type T	Comment Status X			
The table entry 'Conr mistake).	nector insertion loss' is mislead	ling, and I believe	e the limit is wrong (my	/
SuggestedRemedy				
If you need the table,	change to 'Losses of all conne	ections'. Change	the limit to 1.5 dB.	
Proposed Response	Response Status O			
C/ 68 SC 10	P 13	L 32	# 39	
Piers Dawe	Agilent			
Comment Type T	Comment Status X			
Suggested Remady	sion, just copy:			
Copy the relevant en	tries in table 38-12 or 52-25.			
Proposed Response	Response Status O			
C/ 68 SC 11	P13	L 5 4	# 40	
Piers Dawe	Agilent			
Comment Type E Typo	Comment Status X			
SuggestedRemedy Delete the first 'for'.				
Proposed Response	Response Status O			
C/ 68 SC 11	P14	L 2	# 41	
Piers Dawe	Agilent			
Comment Type E Typo	Comment Status X			
SuggestedRemedy not slice but splice				

Proposed Response Response Status **O**

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 68

Page 1 of 9 C/ 68 SC 11

			P802.3aq	Draft 0.1 Commer	nts			
C/ 68 SC 11 Piers Dawe	P 14 Agilent	L 2	# 42	Cl 68 So Pete Hallemeie	C 3.2	P 10 Optium Corp	L 19	# 1
Comment Type T Wrong allocation for al SuggestedRemedy I agree with editor: cha Proposed Response	Comment Status X Ilocation for connector and spl ange to 1.5 dB following clause Response Status O	ice loss e 38.		Comment Type The explicit implementa language c different typ deployment ensure inte i.e. the pos	T inclusion ation speci- bould poter bes of MM t, 2) force roperabilit sibility of c	Comment Status X of tests supporting integrated TF fic language that is not required i titally cause the following: 1) force fiber (50/62.5um) which adds ca end users into multiple TP2 com y, 3) exclude the possibility of int one port type for SMF and MMF w	2 compliant la in a standard. e multiple part omplexity to th formance test eroperation wi when launch co	aunches adds In addition, this codes to support the e supply chain and configurations to th single mode fiber, onditioning is removed.
Cl 68 SC 12.2.3 Piers Dawe Comment Type E Blank line? SuggestedRemedy	P 15 Agilent Comment Status X	L 44	# <u>43</u>	SuggestedRem Specify the conditioning TP2. For e optics (or si Proposed Resp	edy launch op g for TP2 v xample, la milar), voi onse	otics at the transceiver to be of th would be left for the user to imple aunch conditioning would be impl rtex lenses, patchcords, etc, if ne <i>Response Status</i> O	e standard SM ment betweer emented with eded or desire	IF type. The launch the transceiver and connector snap-in ed.
If so, remove. Proposed Response	Response Status 0			Cl 68 So Piers Dawe	C 4.1	P3 Agilent	L 24	# 10
Cl 68 SC 2 Piers Dawe Comment Type E To keep things simple SuggestedRemedy Delete editor's note. Proposed Response	P 3 Agilent <i>Comment Status</i> X , make this the same as the m <i>Response Status</i> O	L 1	# 9	Comment Type re two or ha of the patch but believe measureme Also, clause SuggestedRem Delete edito	E alf meter of acord used that the e ent, and I of ent purpos 52 has 2 edy or's note.	Comment Status X f fiber: a similar issue came up in d in measurements at 2 m: we as xtra distance allows something to don't believe the work has been o les. This fiber consumes about 2 m.	n EFM. We ke sume 0.5 m w o move toward done to show t 0 bit times: I a	ept the minimum length ill give a working link, s an equilibrium for hat 0.5 m is enough for assume that's OK.
				Proposed Resp	onse	Response Status O		

P802.3aq Draft 0.1 Comments							
C/ 68 SC 4.4 Piers Dawe	Р 4 Agilent	L 27	# 11	C/ 68 SC 5 Tom Lindsay	Р 9 ClariPhy Cor	L 5 nmunicati	# 3
Comment Type T Do we really want the 1 30 dBm mean. This co	Comment Status X fail threshold at -30 dBm OM. comment does not apply to the	A? The Tx off po 'OK' level.	ower (following 52) is -	Comment Type T Table 68.5: Does th mask) allow penaltie	Comment Status X e budget hold together? I'm cor es that are not covered in or cor	cerned that the c relate well with th	current specs (TP2 ne budget.
SuggestedRemedy Either work out the equ extinction ratio range, power in this one cell.	uivalent OMA to -30 mean, pi or (simpler, my recommenda	cking the approp ion) just change	priate end of the from OMA to average	SuggestedRemedy Need better tests at the budget and its p on the TP2 test fram	TP2 that assure the specification enalties and vice versa. See provide the provided	ons and that the sevious comment	specifications reflect for recommendations
Proposed Response	Response Status O			Proposed Response	Response Status O		
Cl 68 SC 5 Tom Lindsay	Р б ClariPhy Con	L 34 nmunicati	# 2	C/ 68 SC 5.1 Piers Dawe	Р б Agilent	L 21	# 12
Comment Type T Table 68.3:A qualitativ compliance in EDC-en Figure 68-4.	Comment Status X e mask test is not sufficient o abled systems. This comme	r necessary as a nt also applies to	an approach for TP2 o Clause 68.6.3.1 and	Comment Type T Minimum transmit C measured on an orc budget.	Comment Status X MA seems right, if measured w linary pattern, it would be lower	ith a (slow) squa ed by 1/2 to 1 dB	re wave. However, if to keep the same
SuggestedRemedy A different test framew	rork has been proposed in the	e TP2 con-calls a	and will be presented	SuggestedRemedy Per outcome of TP2	specification discussion		
again in the Ottawa me Proposed Response	eeting. Response Status O			Proposed Response	Response Status O		
C/ 68 SC 5	P 8	L 18	# 6	C/ 68 SC 5.1 Tom Lindsay	Р 6 ClariPhy Cor	L 24 nmunicati	# 5
Tom Lindsay Comment Type T Table 68-4: Sinusoidal SuggestedRemedy Propose two frequenci frequency jitter term sh included in the stresse defined at 5 Lll sed 10	ClariPhy Con Comment Status X jitter frequencies are TBD. es/magnitudes spec pairs in nould be 80 MHz with an amp d eye test for the Rx. I recom	the table. I recor litude of 0.1 U p mend that a low	nmend that the high ok-pk, and that this be frequency jitter term be	Comment Type T Table 68-3: As claus are used in OMA an relationship between 3. The quality of this SuggestedRemedy May want to conside	Comment Status X se 58.7.6 (referred from 68.5.1) id extinction ratio measurement in extinction ratio and OMA may s relationship will be based on the er a new definition for extinction	explains, the val s may be differer not be so simple ne final requirement ratio based on the	ues of P0 and P1 that it, and so the as shown in Figure 68- ents placed on TP2. he P0 and P1
included in the stresse defined at 5 UI and 40 partially discussed in the	d eye test for the Rx. I recom kHz as a separate test from he TP3 ad hoc.	mend that a low the stressed eye	frequency jitter term be This has been	May want to conside measurements used square wave definiti	er a new definition for extinction I for OMA. That is, measure ext on per 802.3ae, clause 52.	ratio based on th inction ratio using	ne P0 and P1 g the low frequenc

partially discussed in the TP3 ad hoc.

Proposed Response Response Status 0

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 3 of 9 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn CI 68 SC 5.1

Response Status 0

Proposed Response

			P802.3aq E	Draft 0.1 Con	nments			
C/ 68 SC 5.1 Piers Dawe	Р 6 Agilent	L 28	# 13	C/ 68 Piers Daw	SC 5.2	Р 8 Agilent	L 22	# 17
Comment Type T Looking at figure 68-3 the parameter space	Comment Status X 3, it's obvious that for directly m will never be occupied. So we	nodulated lasers can cut it off, at	the bottom corner of no product cost,	Comment We be	<i>Type</i> T elieve a sinus	Comment Status X soidal interferer is not appropriate	for an equalisin	g receiver
allowing better diagno dBm will, per footnote	ostics using a power meter in n e b, have no effect unless the e	etwork maintena xtinction ratio ex	nce. A limit of -6.5 ceeds ~10 dB.	Repla	ice by noise lo work to define	oading: either filtered PRBS or filt e amplitude and spectrum of the	tered Gaussian v noise	white noise. Need
Change from an infor	mative -7.5 dBm to a normative	e -6.5 dBm. Dele	ete footnote b.	Proposed	Response	Response Status O		
Proposed Response	Response Status 0							
				C/ 68 Tom Linds	SC 5.2 sav	P 8 ClariPhy Com	L 22 nmunicati	# 7
C/ 68 SC 5.1	P 6 Agilent	L 39	# 15	Comment	Туре Т	Comment Status X		
Comment Type T	Comment Status ¥			Table	68-4: Sinuso	idal interference is not a good rep	presentation of r	nodal noise and RIN.
				Suggeste	dRemedy			
SuggestedRemedy				Chang metho upper spect	ge sine interfe ods may be al end of spect rum. This has	erence to a broadband noise sound ble to use scope, but a RF spectr rum at least out to 10? GHz and the s been discussed in the TP3 ad he	rce. Magnitude/p rum analyzer sho that there are no oc.	oower TBD. Calibration ould be used to assure o discrete peaks in the
Proposea Response	Response Status 0			Proposed	Response	Response Status 0		
C/ 68 SC 5.2 Piers Dawe	P 8 Agilent	L 18	# 16	C/ 68 Piers Daw	SC 5.2	P8 Agilent	L 27	# 18
Comment Type T re jitter frequency: just measurement section	Comment Status X st follow precedent (jitter mask) n	. Suggest the sp	oot frequencies in the	Comment If the	<i>Type</i> T simple ISI filte	Comment Status X er is equivalently stressful as the	more complex c	one
SuggestedRemedy				Suggeste	dRemedy			
Copy table 52-19 but	use 0.05 instead of S, simplify	the equations		We st	nould be able	to work out the OMA as that for t	the stressed sen	sitivity plus/minus
Proposed Response	Response Status 0			Proposed	Response	Response Status		



Comment Type T Comment Status X

Receiver dynamic penalty: measuring path penalties even with a whole 1 dB limit, on a stable SMF chromatic-dispersion path, is notoriously inaccurate, because the result is the difference between two measurements. Measuring the same system under test twice (with and without the dynamic path) leads to a time-consuming measurement. Further, we don't know what limit is suitable or why. No other measurement requires us to actually find the point of sensitivity - the other specs mearely require to show BER<1e-12 under set conditions. The concept of 'dynamic penalty' may still be of interest for component procurement, but this isn't a purchase of an IC, it's a standard for a port in a DTE.

SuggestedRemedy

Instead of measuring sensitivity twice, define two (if necessary) 'dynamic sensitivities', for two frequency/amplitude pairs. This would be much more practical than a spec on a penalty. If we are lucky, we will need just one frequency/amplitude pair (the 'slow/deep fade' one). Choose the 'ISI difficulty' of this spec at the 90%ile of 220m, not the 99%ile, because we are not building this spec on a 'worst x worst' basis ('corners') but on a 'reasonably unlikely' basis (joint probability), and most links won't move, over most of their length, most of the time. We still need to consider if this penalty is orthogonal to others such as noise loading and jitter. I believe it is not, and should be included in the main stressed sensitivity spec. Combining the two does not require any special level of imagination! Combine them. This is nice for the precursor-postcursor stressors because with skill we could make them into just two phases of a dynamic test, instead of two separate test cases. The 'symmetrical' test might turn out to be another phase of the same test, or may have a slightly different ISI level.

Proposed Response	Response Status O		
C/ 68 SC 5.3	P 9	L 11	# 20
Piers Dawe	Agilent		
Comment Type T It looks like I mad	Comment Status X e a mistake with 2 dB allocation fo	or connector loss	. 38.11.2.1 has 1.5 dB
for MMF.			

Change 2 to 1.5. Increase all sensitivities by 0.5 dB. Reduce budget from 4 to 3.5 dB.

Proposed Response Response Status O

CI 68	SC 6.1	P 7	L 24	#	14
Piers Dawe		Agilent			

Comment Type T Comment Status X

Need some content in 68.6.1 Test patterns. In the proposed table I haven't been vaery careful to choose between pattern 1 and 2, I have just followed clause 52.

SuggestedRemedy

Insert: Compliance is to be achieved in normal operation. Two types of test pattern are used, square wave (52.9.1.2) and other (52.9.1.1). Test patterns are as in Table 68-x unless specified otherwise. NOTE —Test patterns for specific optical tests are designed to emulate system operation, which would entail passing valid 10GBASE-R data. Table 68-x Test-pattern definitions and related subclauses Test Pattern Related subclause Average optical power 1 or 3 52.9.3 OMA (modulated optical power) Square or (1 or 3) TBD 68.6.5 Extinction ratio 1 or 3 68.6.3.n Transmit eye 1 or 3 68.6.3.1 RINXOMA 1 or 3 68.6.3.2 Wavelength, spectral width 1 or 3 52.9.2 Vertical eye closure penalty calibration 2 or 3 68.6.4 Receiver sensitivity 1 or 3 68.6.9 Receiver overload 1 or 3 68.6.4 Receiver conformance (sensitivity) 2 or 3 68.6.4

Proposed Response Response Status **O**

C/ 68	SC 6.2	P 7	L 26	#	4
Tom Lindsay	,	ClariPt	hy Communicati		

Comment Type T Comment Status X

OMA is currently defined per 802.3ah (EFM) and shown in Figure 58-9. This definition uses a histogram method for the logic levels and data patterns with a high transition density. For many of the signals within 802.3aq, the signals may not be open, and so the the OMA with this definition will vary as the ISI varies. The budget we've been using does not consider eye closure - it is based only the outer portions of the eye (A_n per Figure 58-9).

SuggestedRemedy

Use the low frequency square wave definition per 802.3ae, clause 52. This has been discussed in the TP3 ad hoc, albeit some time ago.

Proposed Response Response Status **O**





or on an ordinary pattern or in-service bitstream, following 58.7.5. The latter is more representative, and much more convenient in a real network. The algorithm can still work even on a completely closed eye - need to check its accuracy, though 'square wave' accuracy is pretty disappointing in practice.

SuggestedRemedy

Per outcome of TP2 specification discussion. In the interim, add editor's note pointing out both references.

Proposed Response Response Status **O**

Cl 68	SC 6.3	P 9	L 31	# 45
Piers Dav	we	Agilent		
Commen	t Type T	Comment Status X		

Proposed text for extinction ratio

SuggestedRemedy

68.6.3.n Extinction ratio measurements The extinction ratio shall meet specifications according to ANSI/TIA/EIA-526-4A with the port transmitting a valid 10GBASE-R signal and with minimal back reflections into the transmitter, lower than -20 dB. For test purposes, pattern 1 or 3 or an appropriate PRBS (2^23-11 or 2^31-1) may be used. The test receiver has the frequency response as specified for the transmitter optical waveform measurement.

Proposed Response Response Status **O**

C/ 68 Piers Daw	SC 6.3.1 ve	P 9 Agilent	L 33	# 44	
Comment Tie th	t Type E le terminology tog	Comment Status X			
S <i>uggeste</i> Appe	<i>dRemedy</i> nd '(transmit eye))' to title			
Proposed	Response	Response Status 0			

C/ 68	SC 6.3.1	P 9	L 38	# 22
Piers Dawe		Agilent		
Comment Typ	ет	Comment Status X		

Text for you. Nick! Part 1 of 3

SuggestedRemedy

The required transmitter pulse shape characteristics are specified in the form of a mask of the transmitter eye diagram as shown in Figure 68-4. Compliance is to be assured during system operation. However, measurements with pattern 3 or 1 defined in 52.9.1,or other patterns such as a 2^23-1 PRBS or a valid 10GBASE-R signal are likely to give very similar results. The transmitter optical waveform of a port transmitting the test pattern specified in table 68-n shall meet specifications according to the methods specified below. Normalized amplitudes of 0 and 1 represent the amplitudes of logic ZERO and ONE respectively. These are defined by the means of the lower and upper halves of the central 0.2 UI of the eye. 0 and 1 on the unit interval scale are to be determined by the eye crossing means. A clock recovery unit (CRU) should be used to trigger the oscilloscope for mask measurements as shown in Figure 52-9. It should have a high frequency corner bandwidth of less than or equal to 4 MHz and a slope of -20 dB/decade. The CRU tracks acceptable levels of low frequency jitter and wander. The frequency response of the measurement instrument (e.g. oscilloscope) should extend to suitably low frequencies. A DC coupled instrument is convenient.

Proposed Response	Response Status	0		
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01.00	00.004	D 0	1.00	# 64
Piers Dawe	SC 6.3.1	Agilent	L 38	# 24
Comment T	ype T	Comment Status X		

Text for you, Nick! Part 3 of 3

SuggestedRemedy

 $5 \times 10^{-5} \times 200 \times 1350 / (0.2 \times 10) = 6.75$ (68-n) Likewise, if a measurement is continued for 1000 waveforms, then an expectation of less than 33.75 hits is compliant. An extended measurement is expected to give a more accurate result, and a single reading of 6 hits in 200 waveforms would not give a statistically significant pass or fail. Measurements to "zero hits", which involve finding the position of the worst single sample in the measurement, have degraded reproducibility because random processes cause the position of such a single low-probability event to vary. The hit ratio limit has been chosen to avoid misleading results due to transmitter and oscilloscope noise, and to give the best correlation to transmitter penalty; see 58.7.9.5. Further information on optical eye pattern measurement procedures may be found in IEC 61280-2-2.

Proposed Response Response Status **O**



Text for you, Nick! Part 2 of 3

SuggestedRemedy

The eye is measured with respect to the mask of the eye using a receiver with a fourthorder Bessel-Thomson response with nominal fr of 7.5 GHz as specified for STM-64 in ITU-T G.691, with the tolerances there specified. The Bessel-Thomson receiver is not intended to represent the noise filter used within a compliant optical receiver, but is intended to provide uniform measurement conditions at the transmitter. The transmitter shall achieve a hit ratio lower than 5x10^-5 hits per sample, where "hits" are the number of samples within the grey areas of Figure 68-4, and the sample count is the total number of samples from 0 to 1 UI. NOTE— As an example, if an oscilloscope records 1350 samples/screen, and the timebase is set to 0.2 UI/div with 10 divisions across the screen, and the measurement is continued for 200 waveforms, then a transmitter with an expectation of less than 6.75 hits is compliant:

Proposed	l Response	Response Status O		
CI 68	SC 6.3.2	P 11	L 3	# 25
Piers Dav	ve	Agilent		

Comment Type T Comment Status X

I have looked at the two RINxOMA measurement sections 58.7.7 and 52.9.6. They are technically identical except for a 'shall' in the second line, and that 58.7.7 incorporates the noise bandwidth by reference while 52.9.6 has it hard-coded into the text. We don't need to clone this text a third time, 802.3 is long enough as it is! We can include our own 'shall'.

SuggestedRemedy

As an excess of bandwidth is not a problem in this project, I think we can revert to the default noise bandwidth of 3/4 modulation rate, as specified for the transmitter optical waveform test. Insert text: 'The transmitter's RINxOMA shall meet the specification of table 68-3 according to the procedure defined in 58.7.7.' Remove editor's note.

Proposed Response Re

Response Status O

C/ 68	SC 6.4	P 11	L 19	# 26
Piers Dawe		Agilent		

Comment Type T Comment Status X

The disadvantage of the low pass filter is calibration and accuracy. One advantage is to smooth off an otherwise artificial looking test eye. Another is to do some noise spectral limiting/shaping, which it seems we need. 4th order Bessel-Thomson is a default choice but I'm told that odd order filters may be easier in practice.

SuggestedRemedy

Include the a low pass filter (additional bullet c). Remove question mark from figure 68-6. Add a row for filter's characteristic to table 68-4.

Proposed Response	Response Status	Ο	
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C/ 68	SC 6.4	P11	L 20	#	48]
Vipul Bhatt		Independent				

Comment Type T Comment Status X

For EDC-enabled receivers, sinusoidal interference is not a suitable emulation of noise. Use of a sinusoid can produce meaningless conclusions, and is not in alignment with the spirit of TP3 compliance testing in this situation. Use of a broadband noise source seems to be a better choice than other alternatives, considering its likeness to RIN and broadband component of modal noise, and the fact that it permits a true black box view of the receiver. This commenter acknowledges that further feasibility investigation is required, and is willing to re-submit this comment in the next meeting if the task force so advises.

SuggestedRemedy

In subclause 68.6.4, Fig. 68-6, and in Table 68-4, replace the sinusoidal interferer with a noise generator.

Proposed Response Response Status O

C/ 68	SC 6.4	P11	L 20	#	29
Piers Dawe		Agilent			

Comment Type T Comment Status X

Don't think a sinusoidal interferer is viable: a smart equaliser might apply a notch filter to it!

SuggestedRemedy

Replace by either filtered PRBS or filtered Gaussian white noise.

Proposed Response Response Status **O**

			P802.3aq D	raft 0.1 Com	ments			
C/ 68 SC 6.4 Piers Dawe	P 11 Agilent	L 22	# 46	Cl 68 Piers Dawe	SC 6.4	P 11 Agilent	L 36	# 28
Comment Type T Here is a good place	Comment Status X to provide suggested spot-test	frequencies.		Comment T The SL	<i>Type</i> T JT and pattern	Comment Status X generator don't need to be con	nnected together	
SuggestedRemedy Suggest two jitter am for one of them, my 0	nplitude/frequency combinations 0.05 UI.	s per Tom's and I	_ew's suggestions, or	Suggested Delete	Remedy the arrow linki	ng them.		
Proposed Response	Response Status 0			Proposea r	kesponse	Response Status 0		
C/ 68 SC 6.4 Piers Dawe	P 11 Agilent	L 22	# [47	C/ 68 Piers Dawe	SC 6.4	P11 Agilent	L 44	# 30
Comment Type T Too many 'shall's. N	Comment Status X leed a master shall.			Sinuso	<i>ype</i> T idal interferer r	not suitable, replacement could	d be better placed	1.
SuggestedRemedy Something like 'The i described below.' Th 'isconnected'.	receiver shall deliver a bit error nen change 'shall be converted'	rate of 10^-12 ur , shall be conned	nder the conditions ted' to 'isconverted',	Suggested Have tl filter. A Proposed F	Remedy ne PRBS or Ga An additional no Response	aussian white noise source ado bise filter will probably be need <i>Response Status</i> O	d into the signal b ded, unfortunately	pefore the low pass /.
Proposed Response	Response Status O							
C/ 68 SC 6.4	P 11 Agilent	L 27	# 27	CI 68 Piers Dawe Comment T	SC 6.4.1	P 11 Agilent Comment Status X	L 53	# 31
Comment Type T How to calibrate OM	Comment Status X A in stressed eve generator?			Need to the mo	be more spects st convenient v	cific about overload requireme way is to include overload in th	nts than in previc le 'sensitivity test	ous standards. I think ing' section(s).
SuggestedRemedy A task for the commi on the TP3 eye, with	ttee! I suggest we try statistical a a typical or scrambled pattern	metrics and the n. I haven't had	built-in scope metrics time to progress this	Suggested Chang overloa terming	Remedy e to: 'The rece d (maximum ru ology together,	eiver under test shall satisfy the eceived power in OMA) specifi insert '(overload)' into table 68	e static stressed ications in Table 3-4 after 'Receive	receiver sensitivity and 68–4.' To tie the d power in OMA'.
yet.				Proposed F	Response	Response Status 0		

Proposed Response Response Status **0**

P802.3ad	Draft 0.1	Comments
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Downgrade it to a recommendation. Delete 'and as defined in 51.10.3 for installation.' and insert: 68.n.n Installation It is recommended that proper installation practices, as defined by applicable local codes and regulation, be followed in every instance in which such practices are applicable.

Proposed Response Response Status 0

C/ 68	SC 6.4.3	P 12	L 5	#	33
Piers Dawe		Agilent			

Comment Type **T** Comment Status X

A path penalty type measurement takes twice as much time as an absolute measurement. It is too inaccurate for the low limit suggested. We have no basis of understanding for choosing what a suitable limit should be. This test is not viable.

SugaestedRemedv

Instead, use an absolute measurement. Specify the two OMAs ('sensitivity' and 'overload') at which the SUT must achieve the rated BER with defined stressors. Pick a slow frequency representative of a human moving a patchcord. If this is so slow as to be not an issue for practical equalisers, delete the test completely.

Proposed Response Response Status 0