C/ 00	SC		Ρ	L	# 1	C/ 00	SC 6	8.6.2	P 31	L 4	# 3
Swenson,	Norman					Swanson	, Steve				
the info comm approa	ning that w formative a nent is an a ach estima		by OMA for T method for me method I subr	easuring OMA. mitted in a relat	ed comment. This	Gene makin Suggeste	eral comm ng it difficu edRemedy	ult to find ı ,	Comment Status X ne Figures and Tables are n references to them. s near the text that reference	ot placed prop	age num: 31. PDF page: 3 erly in the document,
Suggested	dRemedy					Proposed	l Respons	e	Response Status 0		
Add th	ne a subcla	use that descibes a m	ethod to mea	sure OMA as f	ollows:						
linear	fit	%anticipation and me m+1,PtrnLength); %Si	2		n be varied to improve	<i>Cl</i> 30B Dawe, Pie	SC 3 ers	0B	P 24	L 12	# 4
Y=zero for ind X(in end X=[X;c for ind Y(ind,: end	ros(OverSa d=1:ant+me nd,:)=circsh ones(1,Ptrr d=1:OverSa :)=yout0([0	mpleRate,PtrnLength) m+1 ift(XmitData,ind-ant-1) Length)]; %The all-on mpleRate PtrnLength-1]*OverSa	; %Size obse ';%Wrap app es row is incl ampleRate+in	rvation matrix f ropriately for lir uded to compu ud)'; %Each col	n fit te the bias umn is one bit period	Suggeste Fix, c Proposed		, 1.	Comment Status X ght be a bug in 802.3am) Response Status O	Pa	age num: 24. PDF page: 24
%last) Steady) is one bit yZeroPowe)^(-1); %Coefficient m period of the pulse res r=mean(Qmat(:,ant+n sum(sum(Qmat(:,1:ant	ponse. The I nem+2));	ast column is tl		<i>Cl</i> 44 Dawe, Pi		4.1.4.4	P16	L 36	# 5
Conse	esus on a p		ween this me		s proposed is expected		comment		Comment Status X erfectly executed; need a c		age num: 16. PDF page: 1
Proposed	Response	Response St	atus O				edRemedy comma af				
<i>CI</i> 00 Booth, Bra	SC		P16	L1	# 2	Proposed	l Respons	e	Response Status O		
Comment	Туре Е	Comment St		-	ge num: 16. PDF page: * eadability.	6 C/ 44 BABANE	SC T ZHAD, JC	a ble 44-1 SEPH	P 17	L	# [6
Suggested			 -,		,	<i>Commen</i> In Ta		E on page 17	Comment Status X 7 a reference to 10GBASE-		<i>Page num: 0. PDF page:</i> nissing.
		Response St	atus O			00	edRemedy		IOGBASE-T.		
Proposed	Response					/////	a low pen		IUODAUL I.		

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COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

CI 44 SC 44.3 Booth, Brad	P18	L 24	# 7	Cl 44 Swanson, Ste	SC 44.5 ve	P 19	L 25	# 10
Comment Type E Information provided	Comment Status X d is slightly incorrect.	Page	num: 18. PDF page: 18	Comment Typ Incorrect	pe T maximum char	Comment Status X	Page	e num: 19. PDF page: 19
SuggestedRemedy				SuggestedRe	medy			
	rial PMA and PMD (except LRM) to read: LRM PMA and PMD			-		" for 10GBASE-LRM entry	for 62.5um fibre.	
Proposed Response	Response Status O			Proposed Res	sponse	Response Status O		
C/ 44 SC 44.5	P 19	L16	# 8	C/ 45 Dawe, Piers	SC 45.2.1.6.1	P 20	L 42	# 11
	Comment Status X es for 10GBASE-LRM in Table 44 iber designations are not consiste	I-4 are not consis		SuggestedRe	5.2.1.6.1 shoul <i>medy</i>	Comment Status X d be included; contains a c	0	e num: 20. PDF page: 20 1
	"Maximum channel length", inse			Reinstate Proposed Res	title for 45.2.1. sponse	6.1 Response Status O		
10GBASE-LRM. Ch	tances of 300 meters each for 10 nange the column labeled "50 um	fibre" to 'OM2 5) um fibre", and					
10GBASE-LRM. Ch change the distance	nange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c	fibre" to 'OM2 50 nn to 220 meters) um fibre", and . Change the column	Cl 45 Booth, Brad	SC 45.2.1.6	P 20	L 45	# [12
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22	nange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c	fibre" to 'OM2 50 nn to 220 meters) um fibre", and . Change the column	Booth, Brad Comment Typ	pe E	P 20 Comment Status X fore the text it impacts.		# 12
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22 Proposed Response Cl 44 SC Table	hange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c 10 meters. <i>Response Status</i> O	fibre" to 'OM2 50 nn to 220 meters) um fibre", and . Change the column	Booth, Brad Comment Typ Move edit SuggestedRe	be E tor's note to be medy	Comment Status X	Page	
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22 Proposed Response Cl 44 SC Table Bergmann, Ernest Comment Type T	hange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c 0 meters. <i>Response Status</i> O 44-4 <i>P</i> 19 <i>Comment Status</i> X	n fibre" to 'OM2 50 nn to 220 meters change the distar <i>L</i> 24 <i>Page</i>	0 um fibre", and . Change the column .ce for 10GBASE-LRM # 9 num: 19. PDF page: 19	Booth, Brad Comment Typ Move edit SuggestedRe	be E tor's note to be <i>medy</i> mment, move o	Comment Status X fore the text it impacts.	Page	
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22 Proposed Response Cl 44 SC Table Bergmann, Ernest Comment Type T As a result of the co	hange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c 0 meters. <i>Response Status</i> O 44-4 <i>P</i> 19 <i>Comment Status</i> X pmpromise worked out in July, the educed to 220 meters. It appears	n fibre" to 'OM2 50 nn to 220 meters change the distar <i>L</i> 24 <i>Page</i> e maximum range	0 um fibre", and . Change the column loce for 10GBASE-LRM # 9 num: 19. PDF page: 19 e claimed for 62.5/125	Booth, Brad Comment Typ Move edit SuggestedRe As per co Proposed Res Cl 45	be E tor's note to be <i>medy</i> mment, move o	Comment Status X fore the text it impacts. editor's note to proceed tab Response Status O	Page	
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22 Proposed Response Cl 44 SC Table Bergmann, Ernest Comment Type T As a result of the co multimode fiber is re change in the table. SuggestedRemedy	hange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and c 0 meters. <i>Response Status</i> O 44-4 <i>P</i> 19 <i>Comment Status</i> X pmpromise worked out in July, the educed to 220 meters. It appears	hibre" to 'OM2 50 nn to 220 meters change the distar <i>L</i> 24 <i>Page</i> e maximum range s an oversight no	0 um fibre", and . Change the column loce for 10GBASE-LRM # 9 num: 19. PDF page: 19 e claimed for 62.5/125	Booth, Brad Comment Typ Move edit SuggestedRe As per co Proposed Res C/ 45 Dawe, Piers Comment Typ	be E tor's note to be medy mment, move of sponse SC 45.2.1.7.15 be E	Comment Status X fore the text it impacts. editor's note to proceed tab Response Status O	Page le. 	e num: 20. PDF page: 20
10GBASE-LRM. Ch change the distance labeled "62.5 um fib in this column to 22 Proposed Response Cl 44 SC Table Bergmann, Ernest Comment Type T As a result of the co multimode fiber is re change in the table. SuggestedRemedy	hange the column labeled "50 um e for 10GBASE-LRM in this colur ore" to 'OM1 62.5 um fibre", and o 0 meters. <i>Response Status</i> O 44-4 <i>P</i> 19 <i>Comment Status</i> X ompromise worked out in July, the educed to 220 meters. It appears	hibre" to 'OM2 50 nn to 220 meters change the distar <i>L</i> 24 <i>Page</i> e maximum range s an oversight no	0 um fibre", and . Change the column loce for 10GBASE-LRM # 9 num: 19. PDF page: 19 e claimed for 62.5/125	Booth, Brad Comment Typ Move edit SuggestedRe As per co Proposed Res Cl 45 Dawe, Piers	be E tor's note to be medy mment, move of sponse SC 45.2.1.7.1 be E s bold medy	Comment Status X fore the text it impacts. editor's note to proceed tab Response Status O	Page le. 	e num: 20. PDF page: 20 # 13

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

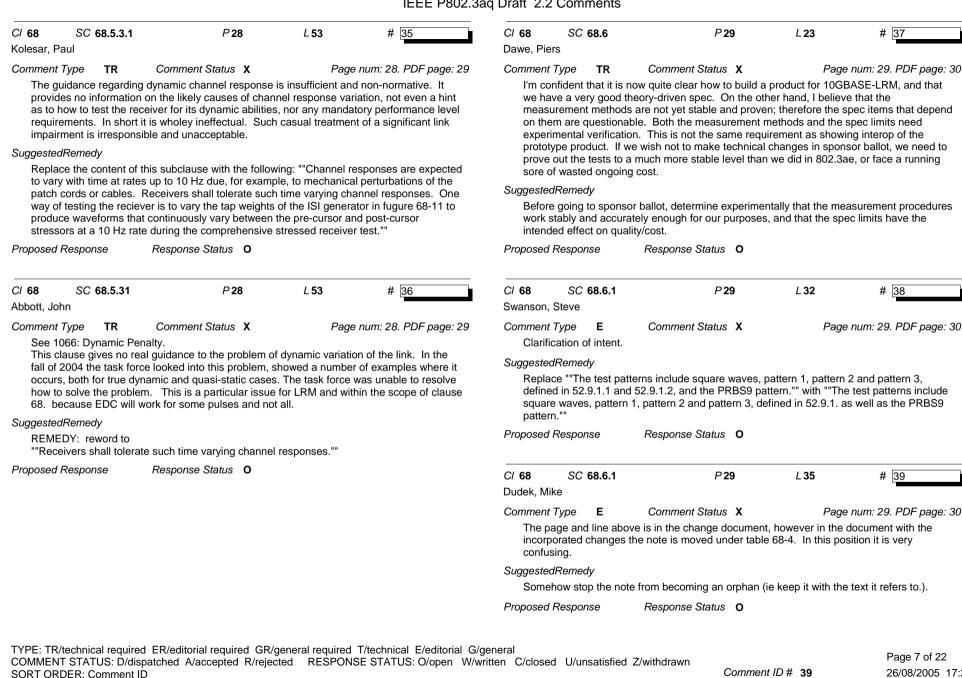
Cl 49 Swanson,	SC 49.1.2 Steve	P 22	L 35	# 14	<i>CI</i> 68 Dudek, Mi		llation Comme P	L	# 17
Comment Incorr standa	ect reference; 19	Comment Status X 95 edition of 11801 does not h	0	<i>num: 22. PDF page: 22</i> Illed out in the LRM		omment is in su	Comment Status X upport of extracting the OMA ar to the TWDP code. This will n	nd decision thre	
Suggested	dRemedy				Suggested	dRemedy			
specif	ied in Clause 52	able plants using optical fiber o and Clause 68."" with ""d) Sup C 11801: 2002 as specified in C	port cable plants		Proposed	Response	Response Status O		
Proposed	Response	Response Status 0							
C/ 49	SC 49.1.4	P 23	L 30	# 15	<i>Cl</i> 68 Booth, Bra	SC 68.2 nd	P 24	L 52	# 18
Booth, Bra	ad				<i>Comment</i> Use n		Comment Status X s greater than ten.	Pag	ge num: 24. PDF page: 25
as S is	ure 49-1, the refe s also MMF. I m	Comment Status X erence to M = MULTIMODE FI ade this comment technical be	BER could be co		Suggested Chang	<i>Remedy</i> ge eighteen to b	e 18.		
		t the TF reviewing it.			Proposed	Response	Response Status O		
Suggester	,	MD WITH DISPERSION COM	IPENSATION EC						
FIBEF			II ENSATION I C	IN MOLTIMODE	C/ 68	SC 68.2	P 24	L 52	# 19
Proposed	Response	Response Status 0			Dawe, Pie	rs			
C/ 68	SC 00	Р	1	# 16	<i>Comment</i> I think	51	Comment Status X	Pag	ge num: 24. PDF page: 25
Kolesar, P		,	L		Suggested	dRemedy			
Comment	Type TR	Comment Status X	Pad	ge num: 0. PDF page: 0	Consid	der changing 'ei	ghteen' to '18'		
The re the pr	ecirculation packa	age failed to comply with the a meeting whereby the comme and interoperability demo, D2.0	greement reache nts related to con	d at the conclusion of npleting modeling,	Proposed	Response	Response Status O		
Suggestee	dRemedy								
Treat	these comments	as being open against D2.2.							
Dropoord	Doononoo	Boononoo Statua							

Proposed Response Response Status **0**

C/ 68 SC 68.4.1 Swanson, Steve	P 25	L 15	# 20	C/ 68 Abbott, John	SC 68.4	P 25	L 8	# 22		
Comment Type TR Specify a single laund	Comment Status X ch for each fiber type.	Page	e num: 25. PDF page: 26	Comment Type TR Comment Status X Page num: 25. PDF p INTEROPERABILITY: In Fall of 2004 the L RM group passed a motion specifying the minimum terms of						
the alternative launch support both options. launch mode-condition between the MDI and condition a TP2 is sp launch is selected by	al launch condition at TP2 is eith (at the userÆs choice), as spe The launch is selected by using oning patch cord or a regular mu TP2, consistent with the media ecified in Table 68-3. A complia using either a single-mode fibe ar multimode fiber patch cord in edia type.""	ecified in 68.5.1 g either a single- ultimode fiber pat a type."" with ""Th ant PMD shall sup offset-launch m	A compliant PMD shall mode fiber offset- tch cord inserted he optical launch pport both options. The node-conditioning	acceptan sponsor I http://ieed center lau based on OM2 fibe SuggestedRe	In Fall of 2004 the LRM group passed a motion specifying the minimum terms of acceptance for demonstration of interoperability and requiring a demonstratrion prior to sponsor ballot. Interoperability has not been demonstrated. The results in http://ieee802.org/3/aq/public/mar05/bhoja_1_0305.pdf draw attention to a problem with center launch. In the OM2 fibers in the cable all 3 Tube 5 fibers are expected to fail CL based on the RNFs. Only one was tested (5 Orange) which failed. Thus 3/6 of the 12/96 OM2 fibers are expected to fail CL launch using this cable. gestedRemedy Remedy: Demonstration interoperability per 802.3aq LRM TaskForce Motion from Fall					
Proposed Response	Response Status O			Proposed Re	sponse	Response Status O				
C/ 68 SC 68.1 an Doorn, Schelto	P 25	L 32	# 21	<i>Cl 68</i> van Doorn, S	SC 68.4.4 chelto	P 27	L 28	# 23		
Comment Type E	Comment Status X	0	e num: 24. PDF page: 25 ket.			Comment Status X signal detect can detect a ""(Compliant 10GB			
Fig: 68-1. Overlappir	ng white box hiding bottom part			stated in	the following p	ome chattering caused by ele aragraphs. This signal looks signal. The compliants is va	like a valid sign	al, but it is not a		
Fig: 68-1. Overlappir SuggestedRemedy				stated in Compliar SuggestedRe	the following p t 10GBASE-F medy the words ""Co	aragraphs. This signal looks	like a valid sign lidated in the lay	al, but it is not a yers above the PMD.		

C/ 68 SC 68.5	P 27	L 39	# 24	C/ 68	SC 68.2	P 27	L 47	# 26
Swanson, Steve	1 21	L 39	# 24	Kolesar, F		1 21	L 41	# 20
Comment Type TR Modify the maximun fiber type. SuggestedRemedy	Comment Status X n channel insertion loss values t	•	e <i>num: 27. PDF page: 28</i> rating range for each	Abbo comm	perating distar tt has provided nent should ride	Comment Status X ace range for OM2 fiber has not fiber delay sets for the OM2 fibe e with the draft until such time as	been substantia er type to the tas	sk force web site. This
Replace ""2"" with th	ne following:				ted in this table	Э.		
""1.83 for 62.5um 16 1.83 for 62.5um 200	/500				lete simulatior	ns using Abbott's OM2 fiber files n in the operating range for OM2		
1.83 for 50 um 500/ 1.65 for 50 um 400/ 1.95 for 50 um 1500	400			Proposed	Response	Response Status O		
Proposed Response	Response Status O			<i>Cl</i> 68 Swanson,	SC 68.5 Steve	P 27	L 52	# 27
C/ 68 SC 68.5 Kolesar, Paul	P 27	L 44	# 25	Comment Clarif	<i>Type</i> TR y footnote on fi	Comment Status X ber types.	Pag	e num: 27. PDF page: 28
assumptions regard best performing of e user has no guidanc failure rate and link overly optimistic pre SuggestedRemedy Either provide the us	Comment Status X nce ranges in table 68-2 for 62.5 ing launch conditions. These di ither the preferred or alternative as to how to determine which coverage statistics are not only dictions.	um fibers are ba stances assume launch conditior is the better cho flawed, but highly ermine the better	the deployment of the n. The flaw is that the ice. The resulting y skewed towards	Repla bandv nm ar follow bandv desig bandv	width values se nd 1300 nm res red by a pair of widths are in M ned to operate	per types is identified by its core eparated by ô/ö. The modal band spectively."" with ""aEach fiber ty OFL modal bandwidth values st Hz.km and are for 850 nm and 1 with lasers and includes specified it to support longer link lengths. <i>Response Status</i> O	dwidths are in M /pes is identified eparated by ô/ö. 1300 nm respect cations in additio	Hz.km and are for 850 by its core diameter The OFL modal tively. OM-3 fiber is
link coverage, and r range table. Specifi that the operating ra	eflect the effect of this more rea cally to this latter alternative, the nge with~4.0 dB PIE-D stressor 0m with 160m for 62.5um fibers	listic methodolog e presentation of s using the offse	y in the operating ewen_2_1104 shows	<i>Cl</i> 68 Booth, Bra		P 27	L 52	# 28
Proposed Response	Response Status O			<i>Comment</i> Footn	51	Comment Status X 68-2 has a line break in it.	Pag	e num: 27. PDF page: 28
				•••	<i>dRemedy</i> ove line break.			
				Proposed	Response	Response Status 0		

C/ 68 SC 68.5 Dawe, Piers	P 27	L 52	# 29	C/ 68 S Swanson, Stev	C 68.5.2 e	P 28	L 42	# 32
Comment Type E Grammar	Comment Status X	Page	e num: 27. PDF page: 28	Comment Type Informative	e ER e text is not c	Comment Status X	Page	e num: 28. PDF page: 29
SuggestedRemedy Change 'fiber types is	s' to 'fiber type is'			SuggestedRen Replace ""	2	" with ""cannot""		
Proposed Response	Response Status O				ample that ex y compliant.	xplains how a signal with pow	er values with th	ne ranges is not
C/ 68 SC 68.5 Swanson, Steve	P 28	L1	# 30	Proposed Resp	oonse	Response Status O		
Comment Type ER There is no reason to	Comment Status X	0	e <i>num:</i> 28. PDF page: 29 ative.""	C/ 68 S John George	C 68.5.3.1	P 28	L 51	# 33
SuggestedRemedy	stablish as an exiting you as for	* FO: 400/400		Comment Type		Comment Status X	0	
Delete footnote 3 or e	establish an operating range for <i>Response Status</i> O	or 50um 400/400.		If channel i	responses a on given the	re expected to vary by 10 Hz, clear expectation that such v	receivers should	d be required to tolerate
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1		or 50um 400/400. <i>L</i> 36	# [31	If channel i this conditi SuggestedRen	responses a on given the <i>nedy</i> Remedy: Ch	re expected to vary by 10 Hz,	receivers should variations will be	d be required to tolerate
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1	Response Status O		# [31	If channel in this conditi SuggestedRen Suggested	responses a on given the <i>nedy</i> Remedy: Ch	re expected to vary by 10 Hz, e clear expectation that such v nange "recommended" to requ	receivers should variations will be	
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1 Swanson, Steve Comment Type E	Response Status O	L 36 Page	e num: 28. PDF page: 29	If channel in this conditi SuggestedRen Suggested Proposed Resp C/ 68 S	responses al on given the <i>nedy</i> Remedy: Ch ponse SC 68.5.3.1	re expected to vary by 10 Hz, e clear expectation that such v nange "recommended" to requ	receivers should variations will be	d be required to tolerate
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1 Swanson, Steve Comment Type E Editorial; reverse orde SuggestedRemedy Replace ""The 10GB/ and Figure 68û3, per	Response Status O P 28 Comment Status X er of referenced material to refl ASE-LRM transmitter shall mee definitions in 68.6."" with ""The	L 36 Page flect it's location in et the specification e 10GBASE-LRM	e num: 28. PDF page: 29 n the document. ons given in Table 68û3 I transmitter shall meet	If channel I this conditi SuggestedRen Suggested Proposed Resp Cl 68 S Swanson, Stev Comment Type	responses al on given the nedy Remedy: Ch ponse CC 68.5.3.1 re TR	re expected to vary by 10 Hz, o clear expectation that such v nange "recommended" to requ <i>Response Status</i> O	receivers should ariations will be uired". <i>L</i> 53 <i>Page</i>	d be required to tolerate present in the field. # 34
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1 Swanson, Steve Comment Type E Editorial; reverse orde SuggestedRemedy Replace ""The 10GB/ and Figure 68û3, per the specifications give	Response Status O P28 Comment Status X er of referenced material to refl ASE-LRM transmitter shall mee definitions in 68.6."" with ""The en in Figure 68û3 and Table 68	L 36 Page flect it's location in et the specification e 10GBASE-LRM	e num: 28. PDF page: 29 n the document. ons given in Table 68û3 I transmitter shall meet	If channel I this conditi SuggestedRen Suggested Proposed Resp Cl 68 S Swanson, Stev Comment Type	responses al on given the nedy Remedy: Ch ponse C 68.5.3.1 re TR formative tex	re expected to vary by 10 Hz, e clear expectation that such v nange "recommended" to requ <i>Response Status</i> O <i>P</i> 28 <i>Comment Status</i> X	receivers should ariations will be uired". <i>L</i> 53	d be required to tolerate present in the field.
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1 Swanson, Steve Comment Type E Editorial; reverse orde SuggestedRemedy Replace ""The 10GB/ and Figure 68û3, per the specifications give	Response Status O P 28 Comment Status X er of referenced material to refl ASE-LRM transmitter shall mee definitions in 68.6."" with ""The	L 36 Page flect it's location in et the specification e 10GBASE-LRM	e num: 28. PDF page: 29 n the document. ons given in Table 68û3 I transmitter shall meet	If channel it this conditi SuggestedRen Suggested Proposed Resp Cl 68 S Swanson, Stev Comment Type Replace in SuggestedRen Replace ""	responses al on given the nedy Remedy: Ch conse C 68.5.3.1 re TR formative tes nedy Channel res ded that rece	re expected to vary by 10 Hz, e clear expectation that such v nange "recommended" to requ <i>Response Status</i> O <i>P</i> 28 <i>Comment Status</i> X	receivers should ariations will be uired". <i>L</i> 53 <i>Page</i> ic response. with time at rates ing channel resp	d be required to tolerate present in the field. # 34 e num: 28. PDF page: 29 s of up to 10 Hz. It is
Delete footnote 3 or e Proposed Response Cl 68 SC 68.5.1 Swanson, Steve Comment Type E Editorial; reverse orde SuggestedRemedy Replace ""The 10GB/ and Figure 68û3, per	Response Status O P28 Comment Status X er of referenced material to refl ASE-LRM transmitter shall mee definitions in 68.6."" with ""The en in Figure 68û3 and Table 68	L 36 Page flect it's location in et the specification e 10GBASE-LRM	e num: 28. PDF page: 29 n the document. ons given in Table 68û3 I transmitter shall meet	If channel I this conditi SuggestedRem Suggested Proposed Resp C/ 68 S Swanson, Stev Comment Type Replace in SuggestedRem Replace "" recommen receiver sh	responses al on given the nedy Remedy: Ch conse C 68.5.3.1 re TR formative tes nedy Channel res ded that rece	re expected to vary by 10 Hz, e clear expectation that such v hange "recommended" to requ <i>Response Status</i> O <i>P</i> 28 <i>Comment Status</i> X xt with requirement on dynami ponses are expected to vary v eivers tolerate such time varyi	receivers should ariations will be uired". <i>L</i> 53 <i>Page</i> ic response. with time at rates ing channel resp	d be required to tolerate present in the field. # 34 e num: 28. PDF page: 29 s of up to 10 Hz. It is



26/08/2005 17:27:52

	0.00.04	Dee	1.50	" 10	0/ 00	00		Dee	1.00	" [10]
C/ 68 S Dawe, Piers	SC 68.6.4	P 29	L 52	# 40	<i>Cl</i> 68 Lindsay, T		68.6.6	P 32	L 39	# 43
Comment Type	e T	Comment Status X	Page	e num: 29. PDF page: 30	Comment	Туре	Е	Comment Status X	Pag	e num: 32. PDF page: 33
interferenc	ce, the appro or 1000BAS	es its case. If a signal has no u ximation is excellent. This co E, just in 10GBASE. Editorial	ncern doesn't ar	ise in SONET or	receiv	er, and here in t	l feel that ' he TWDP	l' means here. TWDP uses reference' would be a bette description.		
SuggestedRen	nedy				00		•	'reference'.		
10GBASE	due to the dif , the equatio	fference in measurement meth ns given in 58.7.6 become ap bol interference.			Proposed			Response Status O		
Proposed Res		Response Status O			C/ 68 Abbott, Jo		68.6.6Tab	le68-3 P 33	L	# 44
CI 68 S Swanson, Stev	SC 68.6.4 /e	P 31	L 32	# 41	draft 2	Case D	Ū	Comment Status X osophy: linkage to new OM	11 & OM2 link len	•
<i>Comment Type</i> Editorial; n	e E non necessar	Comment Status X ry text.	Page	e num: 31. PDF page: 32	philos with le	ophy. Th ss than	ne PIE-D a a 1% failu	need to be chosen to accor and finite equalization pena ire rate on duplex links with meet a 1% failure rate on 0	Ities & link length a 2- and 1- conr	need to be consistent nector design. Need to
SuggestedRen Delete ""	<i>nedy</i> .(shown shao	ded)""			launch	n for OM	1 is incorr	t the assumption of zero co ect. Analysis is required connectors.		
Proposed Res	ponse	Response Status 0			Suggested	Remed	y			
					Reme to OM		view OM1	data, redo analysis, Con	nplete detailed O	M2 analysis analogous
Cl 68 S Abbott, John	SC 68.6.6	P 32	L 36	# 42	Proposed	Respon	se	Response Status O		
differences	3 Flux. EF para s in NA/CD.	Comment Status X ameters cannot be the same f Check calculations. We alrea roup g as a function of offset x	or OM1 and OM dy have differen	t matrices for modeling						
SuggestedRen		are should be abarred to be	analataat hatur	oon the fiber times						
	•	ers should be changed to be o	consistent betwe	een the fiber types.						
Proposed Res	ponse	Response Status O								

C/ 68 SC Table 68- Weiner, Nick	3 P 33	L 27	# 45	<i>Cl</i> 68 Dawe, Piers	SC 68.5.1	P 33	L 31	# 47
technology have moved achieved without signif (This comment address Draft 2.1) SuggestedRemedy Change RINxOMA spe or	Comment Status X able 68-3 was inherited from C d on and any marginal tighteni cant cost implication) would b ses topic raised by Tom Lindsa c from -128 dB to -130 dB i.u c from -128 dB to -129 dB i.u	se spec (that can be I) comment 1155 on 20%.	some un estimate answers the right attempt f also as v SuggestedR Find out cost-effe validated	e num: 33. PDF page: 3 n'right', we still see dB of error, Igorithm to give stable I still believe TWDP is alling it. We should not not just in concept but				
Cl 68 SC 68.6.6 Ali, Ghiasi Comment Type TR Eye mask parameters SuggestedRemedy	P 33 Comment Status X		# 46	Proposed Re	sponse	Response Status 0		
Eye mask parameters l Proposed Response	isted table should be listed for Response Status O	BER of 1E-12.						

C/ 68 Lindsay, Te	SC Table 68-3	P 33	L 31	# 48	<i>Cl</i> 68 Ali, Ghiasi	SC 68	3.6.6	P 33	L 33	# 49
omment	Type TR C	Comment Status X	Page	e num: 33. PDF page: 34	Comment	Туре	TR	Comment Status X	Page	e num: 33. PDF page: 3
and 0. protec	9 dB above split symr t receivers in the field	TP3 PIE-D stress level for metrical. The agreed obje , but allowing these marg an the levels receivers an	ective for TWDF gins will allow tra	P is that it should	Suggestee To eli	dRemedy	me path	ch limits the DCD to 0.5 UI is ological scenario propose to Jl p-p		CD parameter in the
receive		220 meters because of B immediately turns arou uired.			Proposed	Respons	e	Response Status O		
know t	Margin is already built into our specs, so we must be careful to not add more. We already know that TWDP and the mask do not catch all Tx limitations, and I suspect that the TP3 stress test does not represent all allowed impairment from real transmitters such as nonlinearities and uncorrelated jitter. Unless technical rationale shows why these margins are required, set the TWDP limits to be the same as the TP3 PIE-D stress levels that receivers are tested to. Further, individual TWDP limits should be used, not the most relaxed limit based on the highest TP3 stress level.					SC 68 Steve	3.5.1	P 33	L 34	# 50
							ER unch de:	Comment Status X signations consistent.	Page	e num: 33. PDF page: 3
be the TWDP						dRemedy ce ""Optic m fiber""		h for 62.5 Ám fiber"" with ""O	ptical launch for	OM-1 and 160/500
	another approach wo or other nonlinearities	ould be to add more/othe or jitter.	r stresses into th	ne TP3 test such as	Proposed	Respons	е	Response Status O		
Suggested	dRemedy				C/ 68	SC 68	3.5.1	P 33	L 35	# 51
	lines (note, I rounded				Swanson,					
""Spli ""Pos	it symmetrical channe st-cursor channel	4.2 dB""				ASE-LRN		Comment Status X specify a defined launch for g cate the standard and field im	guaranteed oper	
cursor		e the text to read ""A sep id post-cursor channels t			sole purpose of improving the statistical probability of success. SuggestedRemedy Delete ""Preferred"" two places in Table 68-3.					
		. As the code may get m								
	change will brought int l out and merged.	to the September meetin	g after the other	proposed changes are				or alternative launch"" two pla	aces in Table 68	-3.
	-	esponse Status O			Proposed	Respons	e	Response Status O		
OMMEN	T STATUS: D/dispatc	k/editorial required GR/g	ted RESPON	T/technical E/editorial G/g SE STATUS: O/open W/wr	ienerai ritten C/close	d U/unsa	atisfied	Z/withdrawn		Page 10 of 2

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

Cl 68 SC 68.6.6Table68-3 P 33 Abbott, John	L 35	# 52	CI 68 SC Abbott, John	C 68.6.6Ta	ble68-3	P 33	L 36	# 54
Comment Type ER Comment Status X OM1 fiber refers to 200/500 fiber and this line sho analogous to line 41 which reads OM2 and 400/4 SuggestedRemedy REMEDY: add ""and 160/500 fiber"" to line 35	,	LRM standa launch prev multimode f	nment 103 and should iously speci iber in the	1. Because not allow cer cified for 100 Current Ethe	ntered laser laund 0BASE-LX on mi	re not laser-optin h as a normative ultimode fiber and	e num: 33. PDF page: 34 nized fiber, the 802.3aq e option. The offset d 10GBASE-LX-4 on eenter launch should	
Proposed Response Response Status O	L 35	# 53	SuggestedRem REMEDY: c informative Proposed Resp	hange ""pi annex.		""normative"". Mo e Status O	ve center launch	nes for OM1, OM2 to
Comment Type TR Comment Status X The alternative launch specified in table 68-3, wh encircled flux, will result in about a 35% link failur (i.e. 62.5 micron), OM2, or 400/400 50 micron fibe receiver test and test pulses signals specified in 6 attempt to use the lower cost alternative launch a between 201 and 300 meters (per flatman_1_030 frequently (for 10 - 15% of links) have to experime cords on one or both ends of the link to achieve fu close to the 220 meter limit will have to perform s This is an undesirable and unacceptable end use	ch is a center launce e rate for 220 meter ers, based on the co 8.6.9. Given that m and that 30% of build 4 slide 7), end user ent with using mode unctionality. An end uch unwieldy exper	r links of FDDI or OM1 omprehensive stressed nost end users will ding backbone links are rs will in aggregate conditioning patch user having most links iments for 30% of links.	Kolesar, Paul Comment Type In table 68- clauses 38 return loss	3 the refere and 59 is in equirement eferences of	ence to the m ncommplete at imposed by		patch cord spec h clause 68.9.3 (ity clause 68.9.3	# 55 e num: 33. PDF page: 3- cifications within due to the additional should be the single

SuggestedRemedy

SuggestedRemedy: In table 68-3 remove center launch for 62.5 micron, OM2, and 400/400 50 micron fibers from table 68.3. Specifically, remove all content between lines 38 and 40, and lines 44 and 46, of table 68.3. Also delete note d for table 68.3. Change comprehensive stressed receiver test signals to reflect PIE-D = ~ 4.9 dB to assure 99% coverage of installed 62.5 micron, OM2, and 400/400 50 micron fibers with offset launch.

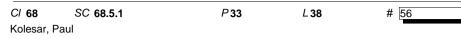
Proposed Response

Response Status 0

the document for other occurrences of these references and correct them similarly.

Proposed Response Response Status 0

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 Type	TR	Comment Status X	Page num: 33. PDF page: 34
--------------	----	------------------	----------------------------

The specification of multiple launch conditions to achieve higher probability of link operation is unprecidented in the history of Ethernet specifications and places an undue burden on the end user to experiment with up to four launch condition combinations per channel to find an operative combination by means of exchanging two types of patch cords. This complexity encumbers the PMD to the point where it runs an unreasonable risk of no longer satisfing the broad market potential criterion. And while deployment of the specified mode conditioning patch cord for 1000BASE-LX may often be on an as-needed basis, the link length at which the cord is needed is almost always in excess of 200 m. The user may choose to ignore the specification at their own risk, but the standard specifies a single launch condition that is functional at for the entire operating range. By comparison, the link failure rate for LRM on legacy fibers with center launch is expected to be about 25% for links of 200 m length, rendering the endorsement of such a solution by inclusion in the standard an act of irresponsiblity.

SuggestedRemedy

Delete the alternative launch specifications. Delete the word preferred and move the callout for footnote d to the end of the lines that begin ""Optical launch ..."". Modify footnote d to read: ""The PMD must support both the use of a single-mode fiber offset-launch mode-conditioning patch cord and a regular multimode fiber patch cord between the MDI and TP2.""

Proposed Response	Response Status	0

	SC 68.6.6	P 33	L 39	# 57
Abbott, John				
Comment Typ	e E	Comment Status X	Page	e num: 33. PDF page: 34
editorial of	ng patch co	ange to 62.5um mode conditior rd for clarity, so reader knows 6	01	

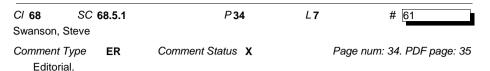
SuggestedRemedy

REMEDY: insert 62.5uminto text line 37, 50um into text lin 42

Proposed Response Response Status O

<i>CI</i> 68 Ali, Ghiasi	SC 68.6.6	P 33	L 51	# 58
Comment T Optical	ype TR return loss toler	Comment Status X ance	Page	e num: 33. PDF page: 34
SuggestedF This line		cable Plant Return Loss""		
Proposed R	esponse	Response Status O		
Cl 68 Swanson, S	SC 68.5.134	P 34	L16	# 59
Comment T		Comment Status X	•	e num: 34. PDF page: 35
values a values a	as well as the pe appear to take th	ative Table that provides little eak power are the same as s ne Table 68-3 values and ad	pecified in Table	68-3. The ""lowest""
values a values a SuggestedF Conside	as well as the pe appear to take th Remedy er deleting this T	eak power are the same as s	pecified in Table d the channel ins to include each	68-3. The ""lowest"" sertion loss.
values a values a SuggestedF Conside	as well as the pe appear to take th Remedy er deleting this T I insertion loss w	eak power are the same as s ne Table 68-3 values and ad able. If not, modify the Table	pecified in Table d the channel ins to include each	68-3. The ""lowest"" sertion loss.
values a values a SuggestedF Conside channe	as well as the pe appear to take th Remedy er deleting this T l insertion loss w Response SC 68.6.5	eak power are the same as s ne Table 68-3 values and ad able. If not, modify the Table vill be different for each of the	pecified in Table d the channel ins to include each	68-3. The ""lowest"" sertion loss.
values a values a SuggestedF Conside channe Proposed R C/ 68 Dudek, Mike Comment T	as well as the pe appear to take th Remedy er deleting this T l insertion loss w Response SC 68.6.5 e Sype E	eak power are the same as s the Table 68-3 values and ad Table. If not, modify the Table vill be different for each of the <i>Response Status</i> O	pecified in Table d the channel ins e to include each e fiber types.	68-3. The ""lowest"" sertion loss. fiber type since the # 60 e num: 34. PDF page: 35
values a values a SuggestedF Conside channe Proposed R Cl 68 Dudek, Mike Comment T The sta SuggestedF Change	as well as the pe appear to take the Remedy er deleting this T l insertion loss we esponse SC 68.6.5 e SC 68.6.5 e type E tement ""The raise Remedy the sentence to	eak power are the same as s the Table 68-3 values and ad Table. If not, modify the Table vill be different for each of the <i>Response Status</i> O <i>P</i> 34 <i>Comment Status</i> X	pecified in Table d the channel ins e to include each e fiber types. <i>L</i> 5 <i>Page</i> nted for."" is not be accounted fo	68-3. The ""lowest"" sertion loss. fiber type since the # 60 e num: 34. PDF page: 35 very helpful

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



SuggestedRemedy

Replace ""dThe PMD must support both the preferred and alternative launch types by the use of a single-mode fiber offset-launch mode-conditioning patch cord or a regular multimode fiber patch cord between the MDI and TP2."" with ""dThe PMD must support both launch types by the use of a single-mode fiber offset-launch mode-conditioning patch cord or a regular multimode fiber patch cord between the MDI and TP2.""

Proposed Response Response Status **O**

CI 68	SC 68.5.1	P 34	L 9	# 62
Kolesar, I	Paul			

Comment Type TR Comment Status X

Page num: 34. PDF page: 35

The guidance on the encircled flux specification in footnore e is misleading and easily misinterpreted regarding the location at which the launch must meet the specification. The specification is to be met when measured at TP2, but the present wording can be misinterpreted as defining the measurment point as the MDI.

SuggestedRemedy

Restate footnore e as follows: ""This encircled flux specification, measured per IEC 61280-1-4, defines the launch at TP2 when the MDI is coupled directly into a patch cord of the same fiber type as that of the supported cable plant.""

Proposed Response Response Status O

C/ 68	SC 68.6.6.2	P 35	L 1	# 63
Booth, Br	ad			

Comment Type E Comment Status X Page num: 35. PDF page: 36 Tables 68-5 (deleted), 68-6 and 68-7 are inserted in the middle of the MATLAB code.

SuggestedRemedy

Ensure that table settings prevent it from being inserted in the middle of a paragraph.

Proposed Response Response Status **O**

C/ 68	SC 68.6.9	P 36	L11	# 64
Dudek, Mił	ke			

Comment Type TR Comment Status X

In the process of relaxing TWDP beyond the Pie-D used to test the Rx in the stressed sensitivity test the link is no longer closing. The stressed sensitivity should be reduced to compensate for this. (Note that with the reduction in stressor Pie-D amplitude from the previous values this change can be accomplished without requiring the Rx noise spectral density to be reduced from it's D2.0 value (The requirement is still somewhat easier). Some justification for a change in the stressed sensitivity rather than a change to stressors is that one potential cause of the need for the TWDP relaxation is the difficulty in measuring OMA accurately. An over-estimate in the OMA of 0.5dB would be one cause of TWDP needing to be at it's D2.2 value. However this same over-estimate would enable a Tx to emit 0.5dB less OMA and require the suggested 0.5dB better stressed sensitivity.

SuggestedRemedy

Change the stressed sensitivity in OMA from -6.5dBm to -7.0dBm.

Proposed I	Response	Response Status O		
Cl 68 Dawe, Pier	SC 68.5.3	P 36	L 18	# 65
<i>Comment</i> Quanti		Comment Status X e variables should be in italics	Page	e num: 36. PDF page: 37

SuggestedRemedy

Put Qsq in italics (here and in note to table). Consider whether A1...A4 and Delta_t in this table, and X1...Y3 in table 68-3, should be in italics.

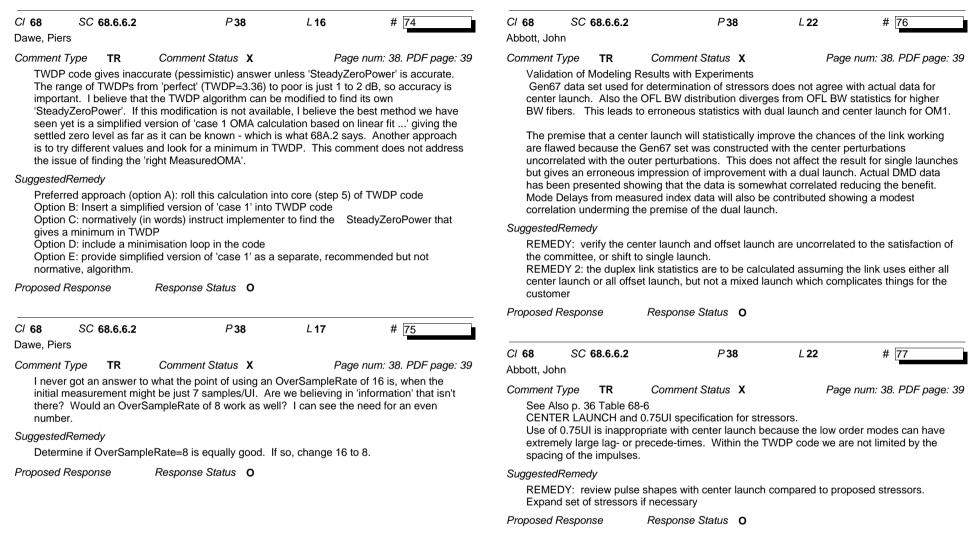
Proposed Response Response Status O

Page num: 36. PDF page: 37

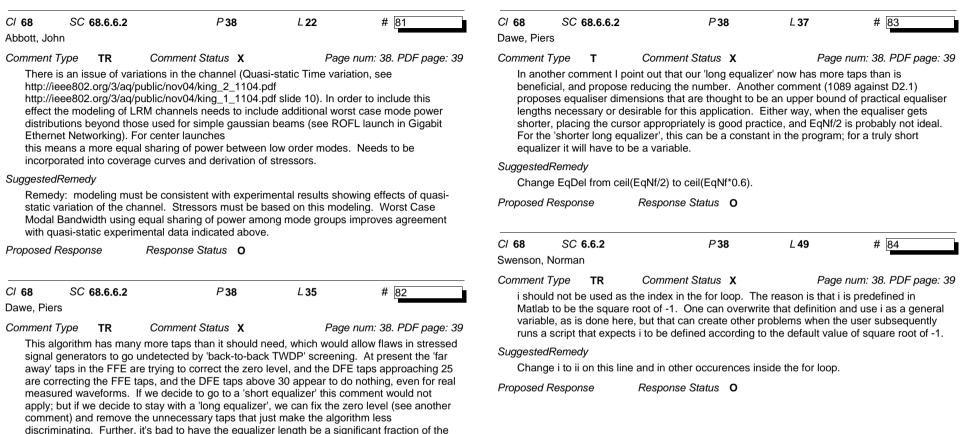
Cl 68 SC Dawe, Piers	68.5.3	P 36	L 25	# 66	CI 68 SC Lindsay, Tom	Table 68-7	P 37	L 21	# 69
because its ta affected by th either will affe 0.545 0 0.425 practice.	ap weights ne differenc ect the resp 5 has a PIE	Comment Status X g to make the split-symmetri are 0 0.513 0 0.487, and the between the two taps (2.6 bonse. This stressor has a P -D of 3.85 dB - hardly different	c stressor accur frequency resp % of their sum). PIE-D of 3.83 dB	onse is strongly Very small errors in a stressor of 0.03	Comment Type Need a space SuggestedReme Insert a space Proposed Respo	edy ce between '1	Comment Status X I' and 'or'. Response Status O	Pag	e num: 37. PDF page: 38
SuggestedRemed Change the s	-	etric tap weights from 0 0.51	3 0 0.487 to 0.03	0.545 0 0.425.	C/ 68 SC	68.6.6.2	P 38	L	# 70
Proposed Respon	nse	Response Status O			Lindsay, Tom			_	
<i>Cl</i> 68 <i>SC</i> Ali, Ghiasi	68.6.6	P 36	L 34	# 67		ed use of sta	Comment Status X t to Unsatisfied comment 1 ndard deviation (OMSD) of	150. 1150 trace	
document on transmitter an may fail to op	page 41 d nd receiver perate with	Comment Status X rance specified is at 200 KHz efines CRU with 4 MHz band may cause significant interco receivers, because the recei- bugh the transmitter CDR.	z, but IEEE 802. dwidth. The disc perability issues	onnect between . Passing transmitters	including the	e use of OMS ts were not o neeting.	San Francisco meeting that D normalization, would be ompleted by the comment	considered and	that if those
SuggestedRemed	dy	-			If the improv will be prese		uired, then a complete solu neeting.	tion including dr	rop-in text for the draft
Add addtional Proposed Respon		er tolerance at 4 MHz with 0. <i>Response Status</i> 0	1 UI of SJ p-p a	nplitude.	Proposed Respo	onse	Response Status O		
Cl 68 SC Ali, Ghiasi	6.6	P 36	L 35	# 68					
Comment Type Units for jitter	E frequncy is	<i>Comment Status</i> X s written as kHz	Page	e num: 36. PDF page: 37					
SuggestedRemed									

<i>CI</i> 68 Lindsay, To		68.6.6.2		P 38	L	# 71	<i>Cl</i> 68 Dawe, Pie		68.6.6.2	P 38	L15	# 73
Lindsay, T	om						Dawe, Ple	rs				
Comment	Туре	TR	Comment St	atus X	Pa	ge num: 38. PDF page: 39	Comment	Туре	TR	Comment Status X	Page	e num: 38. PDF page: 39
Comment Type TR Comment Status X Page num: 38. PDF page: 39 This is a pile-on comment to Unsatisfied comment 1151. 1151 recommended the use automated extraction of OMA and SteadyStateZero for TWDP. It was understood in the San Francisco meeting that some improvements to TWDP, including the use of automated power extraction would be considered, and that if those improvements were not completed by the comment deadline, they could be brought into the September meeting. A study group has made progress on this topic, but its work has not been completed by the comment deadline. SuggestedRemedy If the improvement is required, then a complete solution including drop-in text for the draft will be presented at the meeting. Proposed Response Response Status O C/ 68 SC 68.6.6.2 P 38 L # 72					these repres PRBS metho believ algorit calcula Suggestee Optior Optior Optior OMA - Optior and m Optior	errors a ent: set ds to be e it is), ' hm. If t ated rob <i>Remec</i> A A: sett A B: 1 - 1 C: RM RMS) D C diffe ore opti P: roll	The signific titled 1 min vel that giv est find 'St case 3' (m he third, w bustly from dy led 1 - set 0 in short r S signal + erence bet ions, sepa this calcul	uns additional criterion to contro ween 'natural' 1 and 0 as se rate to the above: ation into core (step 5) of TW	n about what 'Me s run-of-8 0, RMS hat? If the first o er comment). If th waveform) is pro to why, but at le of the speed of the en by TWDP coc VDP code	easuredOMA' should S signal strength of r last, can use the he second (but I don't bably the best ast an RMS can be e transmitter (e.g.		
CI 68	SC	68.6.6.2		P 38	L	# 72	Optior	R: Add	d a subrou	ate section into TWDP code tine to be called by main TW	DP code	
Lindsay, To	om									n words) instruct implemente misation loop in the code	r to what to do	
Comment	Туре	TR	Comment St	atus X	Pa	ge num: 38. PDF page: 39				arate, recommended but not	normative, algo	rithm.
			ent to Unsatisfie equalizer for TW		89. 1089 rec	ommended the use of a	Proposed			Response Status O		
includi	ing the inot com	use of finit	te equalizers, w	ould be consid	lered and tha	ements to TWDP, t if those improvements ght into the September						
Suggested	dRemea	lv										
If the in	mprove	,		omplete soluti	on including	drop-in text for the draft						

Proposed Response Response Status **0**



C/ 68 SC 68.6.6.2 Abbott, John	P 38	L 22	# 78	C/ 68 SC Abbott, John	68.6.6.2	P 38	L 22	# 80
In software can use multiple st include stressors for center & c SuggestedRemedy Remedy: use multiple stressor	offset launches, OM1, o	limit to 3. Can fu OM2,OM3. Inclu	de other UIs than 0.75.	finite equalize This suggests	S AND STF M2 center ers. s that the a 2.org/3/aq/ nch.		nce between per	6
Cl 68 SC 68.6.6.2 Abbott, John Comment Type TR Con See also p.36 Table 68-6. OM3 & Stressors (e) OM3 uses only center laund	P 38 nment Status X ch and this issue is key	Ū.	# <u>79</u> e num: 38. PDF page: 39 g OM3 300m	(c) OM1 cent (d) OM1 stres checked with (e) OM3 uses performance.	are neede er launch s sors and (modeling. only cent Recall ON	is needed d for both center & offset laun hould be reviewed DM2 stressors are not necess er launch and this issue is key 12 and OM3 fibers have the s index perturbations.	sarily the same a	ng OM3 300m
performance. Recall OM2 and only in the magnitude of index SuggestedRemedy Remedy: Need specific OM3 s	OM3 fibers have the s perturbations	ame mode grou		SuggestedRemed REMEDY: mo issues. Incor	dy odel OM2 f porate OM	ibers, determine if OM1 stres 2 stressors if necessary. Re or center launches and how c	solve discrepan	cy between PIE-D and
Proposed Response Resp	oonse Status O			Proposed Respor	nse	Response Status O		



pattern length - this allows a fraction of uncorrectable transmitter impairments to be forgiven as if it were correctable. The remedy below is not intended to make TWDP dimensioned like real equalisers; it's still a 'long equaliser' but more discriminating. The proposed change makes no difference to TrialTWDP with the D2.2 stressors and the standard

Gaussian waveform.

Change EgNf from 100 to 60, change EgNb from 50 to 10.

Response Status 0

SuggestedRemedv

Proposed Response

Cl 68 SC 68.6.6 Dawe, Piers	5.2 P 39	L 3	# 85	<i>CI</i> 68 Dawe, Pie	SC 68.6 rs	9	P 41	L 47	# 87
Comment Type T It's clumsy to norma outside the loop of t SuggestedRemedy	Comment Status X alize the OMA three times over v hree stressors.	0	e num: 39. PDF page: 40 ve been done just once	adequ	to see evide ate toleranc	nce that e and st	Comment Status X t a complete real stressed e tability. We were doing very cVey, now need more.	eye generator o	
If the normalization yout = (yout - Stead to after yout0 = load(Measu	doesn't become channel specifi lyZeroPower)/MeasuredOMA; ıredWaveformFile);	c, move the line:		tolera	e ourselves		omplete real stressed eye g d give the intended/expecte		
but before %% Process throug and change it to: yout0 = (yout0 - Ste	h fiber model adyZeroPower)/MeasuredOMA;				Response		Response Status O		
And keep 68A.2 ali Proposed Response	gned: swap steps 1) and 2) arou Response Status O	nd.		C/ 68 Dawe, Pie Comment	Type TR		P 46 Comment Status X	0	# <u>88</u> ne num: 46. PDF page: 4
C/ 68 SC 68.6.6 Dawe, Piers	5.2 P 39	L 7	# 86	reque	sted in D2.0	comme	nd the matching values in t nt 245 (response: 'REJECT n each other, having differe	Can not be a	
Comment Type TR The functions butter	Comment Status X	0	e <i>num: 39. PDF page: 40</i> some, possibly not so	Suggested Recal		so that	the area under each curve	is 1.	
replace this with so 1 123.14 7581.8 27	tails of the anti-aliasing filter are mething more accessible. It's easily 34504931300 and b = 0 0 0 0 4	asy to avoid butt 931300. Not sur	er, if one knows that a =	Proposed	Response	1	Response Status O		
	own a filter in a form like 1+cos(f ific version of D2.0 comment 30 o unsatisfied).		biled on by D2.1	<i>Cl</i> 68 Dawe, Pie	SC 68.6 rs	11	P 49	L 3	# 89
by replacing: [b,a] = butter(4, 2*p	nctions with 'plain vanilla' code, c i*EFilterBW,'s');	changing the filte	er type if it helps. Start	maker	IOTE allowir	ig altern work - a	Comment Status X native implementations is im at present as an informative	portant, to allo	
with: a = [1 123.14 7581. b = [0 0 0 0 493130	8 273450 4931300]; % Denomi 0]; % Numerator	nator		<i>Suggested</i> Turn t		n into re	gular text, remove 'NOTE -	'.	
Proposed Response	Response Status O			Proposed	Response		Response Status O		

<i>CI</i> 68 Dudek, Mik	SC 68.6.11 ke	P 49	L 3	# 90	CI 68 SC Swanson, Steve	68.10.3.1	P 54	L 6	# 93
incorpo correct Suggested	age and line numb orates the change t position by figure	Comment Status X bers above apply to the Char a the note at the end of Section e 68-13. from being orphaned from the	nge version, how on 68.6.11 has b	been separated from it's		ly ID supports It and the c	Comment Status X s revised. s both preferred and altern enter launches"" Response Status O		age num: 54. PDF page: 55 " with ""PMD supports
Proposed F	Response	Response Status O							
 C/ 68 Swanson, S	SC 68.9 Steve	P 50	L 18	# 91	Cl 68 SC Swanson, Steve Comment Type	68.10.3.3 E	P 55 Comment Status X	L 35	# 94
Comment 7 Given o		Comment Status X nannel insertion loss in Table	0	e <i>num: 50. PDF page: 51</i> are needed here.	Editorial SuggestedRemed				
interme meet th	ce ""The channel of ediate connection he requirements of	consists of one or more secti is required to connect section of Table 68û8."" with The cha	ns together. The annel consists of	fiber optic cabling shall for one or more sections	""LRM3"" sho Proposed Respon		.RM2"" Response Status O		
Replac interme meet th of fiber	ce ""The channel of ediate connection he requirements of r optic cable and a per optic cabling s	is required to connect section	ns together. The annel consists of s required to cor	fiber optic cabling shall f one or more sections nnect sections together.	""LRM3"" sho			L13	# 95
Replac interme meet th of fiber The fib 68û2.""	ce ""The channel of ediate connection he requirements of r optic cable and a per optic cabling s " Table 68-8.	is required to connect section of Table 68û8."" with The cha any intermediate connections	ns together. The annel consists of s required to cor	fiber optic cabling shall f one or more sections nnect sections together.	""LRM3"" sho Proposed Respon Cl 68 SC Swanson, Steve Comment Type Editorial SuggestedRemed	68.10.3.4 E	Response Status O P56 Comment Status X		# 95 age num: 56. PDF page: 57
Replac interme meet th of fiber The fib 68û2.""	ce ""The channel of ediate connection he requirements of optic cable and a per optic cabling s " Table 68-8. <i>Response</i> SC 68.10.2.3	is required to connect section of Table 68û8."" with The cha any intermediate connections hall meet the maximum char	ns together. The annel consists of s required to cor	fiber optic cabling shall f one or more sections nnect sections together.	""LRM3"" sho Proposed Respon Cl 68 SC Swanson, Steve Comment Type Editorial SuggestedRemed	68.10.3.4 E fy should rea	Response Status 0		
C/ 68 Comment T	ce "The channel of ediate connection he requirements of r optic cable and a per optic cabling s " Table 68-8. <i>Response</i> SC 68.10.2.3 Steve	is required to connect section of Table 68û8."" with The cha any intermediate connections hall meet the maximum char <i>Response Status</i> O <i>P</i> 53 <i>Comment Status</i> X	hs together. The annel consists of s required to cor anel insertion los	fiber optic cabling shall f one or more sections nnect sections together. ss specified in Table	""LRM3"" sho Proposed Respon Cl 68 SC Swanson, Steve Comment Type Editorial SuggestedRemed ""(TWPD)""	68.10.3.4 E fy should rea	Response Status O P 56 Comment Status X d ""(TWDP)""		
Cl 68 Comment T Cl 68 Comment T Cl 68 Comment T Major o Suggested	ce "The channel of ediate connection he requirements of r optic cable and a per optic cabling s " a Table 68-8. <i>Response</i> SC 68.10.2.3 Steve <i>Type</i> ER capabilities/optior	is required to connect section of Table 68û8."" with The cha any intermediate connections hall meet the maximum char <i>Response Status</i> O <i>P</i> 53 <i>Comment Status</i> X	hs together. The annel consists of s required to cor anel insertion los	# fiber optic cabling shall f one or more sections nect sections together. ss specified in Table # 92	""LRM3"" sho Proposed Respon Cl 68 SC Swanson, Steve Comment Type Editorial SuggestedRemed ""(TWPD)""	68.10.3.4 E fy should rea	Response Status O P 56 Comment Status X d ""(TWDP)""		
Cl 68 Swanson, S Comment T Cl 68 Comment T Major o Suggestedl Add ne ""*LRM	ce "The channel of ediate connection he requirements of r optic cable and a per optic cabling s " Table 68-8. <i>Response</i> SC 68.10.2.3 Steve <i>Type</i> ER capabilities/option <i>Remedy</i> ew item:	is required to connect section of Table 68û8."" with The cha any intermediate connections hall meet the maximum char <i>Response Status</i> O <i>P</i> 53 <i>Comment Status</i> X	hs together. The annel consists of s required to cor anel insertion los <i>L</i> 26 <i>Page</i>	# fiber optic cabling shall f one or more sections nect sections together. ss specified in Table # 92 e num: 53. PDF page: 54	""LRM3"" sho Proposed Respon Cl 68 SC Swanson, Steve Comment Type Editorial SuggestedRemed ""(TWPD)""	68.10.3.4 E fy should rea	Response Status O P 56 Comment Status X d ""(TWDP)""		

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

Cl 68A SC Swenson, Norma		P 58	L	# 96	C/ 68A Dawe, Piers	SC 68A.1	P 5	8 L 35	# 97
	at we retain no	Comment Status X ormalization by OMA for suggests a method for m	TWDP, a subc	age num: 58. PDF page: 59 lause should be added to	Comment 7 If variat		Comment Status cs and functions don't:	x	Page num: 58. PDF page: 59
consistent wi	ith the method			re in the 802.3 standard.	Suggested	-	lic, Q in eq.68A-2 ?, Qs	a in footnote in its	lics
SuggestedRemed	•	cludes the following code	e for measuring	g OMA:	Proposed F		Response Status	•	
% The OMA ant=4; mem=	of the synthes =40; %These p	on linear fit and synthesiz ized square wave is com parameters can be varied ength); %Size data matr	puted per Clar to improve lin	use 52.9.5	C/ 68A Dawe, Piers	SC 68A.1	P5	9 L 47	# [98
Y=zeros(Ove for ind=1:ant-	erSampleRate t+mem+1	PtrnLength); %Size obse	ervation matrix		Comment 7 Missing		Comment Status een two sentences	X	Page num: 59. PDF page: 60
end X=[X;ones(1,	, , , , , , , , , , , , , , , , , , ,	%The all-ones row is inc	. ,		Suggestedl Insert a	-	efore 'The reference DF	Έ'	
Y(ind,:)=yout end	t0([0:PtrnLeng	h-1]*OverSampleRate+i	,		Proposed F	Response	Response Status	0	
%the last) is SqWvPer=16	one bit period 6; %Must be e	oefficient matrix resulting of the pulse response. ven. Period of the square ();ones(SqWvPer/2,1)];	The last colum wave used to	n is the bias. compute the OMA	C/ 99 Booth, Brac	SC 99	P1	L	# 99
X=zeros(ant- for ind=1:ant- X(ind,:)=circs	+mem+1,SqW t+mem+1	vPer); %Size data matrix -ant-1)'; %Wrap appropri	for synthesis			ion date is a b	Comment Status bit far out in time.	x	Page num: 1. PDF page: 1
Y=Qmat*X;Y	/=Y(:); %Synth	Include the bias esize the modulated squ	are wave, put	into one column npleRate]; %samples to		piration dates	that are at the end of the ppear that the draft is v		
average over SteadyZeroP	י Power=mean(א	(round(avgpos),:)); %Av 6 of ""one"" run, compute	erage over mic		Proposed F	Response	Response Status	0	
	MA=mean(Y(ro	und(SqWvPer/2*OverSa		gpos),:))-	C/ 99 Dawe, Piers	SC 99	P3	L1	# 100
be included v		e reached before the Se		t on which method should ng, in which case this		ous capitals ir	<i>Comment Status</i> n title, do not match 802 302.3am that I have.		Page num: 3. PDF page: 3 ailing space in title. Rubric
Proposed Respo		Response Status O			Suggested Recond	-			
					Proposed F	Response	Response Status	0	

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

C/ 99 SC 99 Dawe, Piers	P 5	L 40	# 101	Cl 99 SC Dawe, Piers	99	P8	L 49	# [105
Comment Type E Greek letters are not	Comment Type Double space	E es in a fe	Comment Status X w people's names		Page num: 8. PDF page: 8			
SuggestedRemedy Please put the Greek	SuggestedRemedy Fix; here and line 52							
Proposed Response	Response Status O			Proposed Respo	nse	Response Status O		
C/ 99 SC 99 Booth, Brad	P 7	L 26	# 102	Cl 99 SC Dawe, Piers	99	P 9	L 22	# 106
Comment Type E Move editor's note to	Comment Status X proceed the referred text.		Page num: 7. PDF page: 7	Comment Type Participants'	E names n	Comment Status X ot in alphabetical order		Page num: 9. PDF page: 9
SuggestedRemedy	nange ""above"" to be ""followi	na"" in the 1st	naragraph of the note	SuggestedReme Use newspap	•	ans		
	ng"" in the 2nd paragraph of th		paragraph of the note.	Proposed Respo		Response Status O		
Proposed Response	Response Status O			Floposed Respon	nse			
<i>Cl</i> 99 <i>SC</i> 99 Dawe, Piers	P 7	L 46	# 103					
Comment Type E Unusual line spacing	Comment Status X		Page num: 7. PDF page: 7					
SuggestedRemedy Reset it. May apply to	o paragraph above also.							
Proposed Response	Response Status O							
C/ 99 SC 99 Dawe, Piers	P 7	L 5 1	# 104					
Comment Type E Title is a widow	Comment Status X		Page num: 7. PDF page: 7					
SuggestedRemedy Keep with next								
Proposed Response	Response Status O							