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roposed Response Response Status O Proposed Response Response Status Proposed Response Response Status O Proposed Response Response Response Status O Proposed Response Proposed Response Proposed Response Response Proposed Response<	00	,	nce of "DWDM channel:"										
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	Suggested	lRemedy											
oposed Response Response Status O	Delete	the second insta	nce of "DWDM PHY:"										
	Proposed	Response	Response Status O										

IEEE D802 Set D2 2 100 Ch/a over DW/DM overtame 2nd Spansor regirevulation hallet commenter

C/ 154A SC 154A.	4 P135	L 40	# <u>R</u> 2-5	C/ 154A	SC 154A.4		P 135	L 43	# <u>R</u> 2-6		
chmitt, Matthew	Cable Televis	ion Laboratories I	nc. (CableLabs)	Schmitt, Matthew Cable Television Laboratories Inc. (CableLabs)							
omment Type E	Comment Status D			Comment	Туре Е	Comme	nt Status D				
The first sentence of	f the second paragraph in 154A	.4 reads:		The se	cond sentence	e of the secon	nd paragraph of 1	54A.4 reads as fo	ollows:		
and demultiplexer will be determined be multiplexer and den the optical path pow Technically, the totat they are not addition referring to fiber los Additionally, the cal which would not inc uggestedRemedy Proposed modifying "The achievable dis determined by the te loss over fiber, the fill	tances across the multi-channel by the total loss from TP2 to TP2 nultiplexer, the loss of potentially eer penalty due to impairments." al loss from TP2 to TP3 includes ns, but inclusions. My assumpti- s, but as written it would seem to culation is not for the distance b lude those loss figures; rather, it the sentence in question to real tances across the multi-channel otal loss from TP2 to TP3, which otal loss of the optical multiplex batch panel connectors, and the benalty)."	 a, less the total los b, present patch patch patch c) all of the items of on is that the author include all source etween the optical is the distance bed c) the distance bed 	ss of optical inel connectors, and in that list; therefore, ior was actually es of loss. I mux and demux, etween TP2 and TP3. 2 and TP3 will be I loss due to signal ker, the loss of	the diff transm Techni can exi the ma Suggested Propos "The m the diff transm minimu	erence betwee itter average of cally, this is no ceed the powe ximum permis <i>Remedy</i> se replacing th naximum allow erence betwee itter average of itter average of itter itter avera	en the minimu channel outpu ot the maximu or output and s sible loss for e sentence in able loss ove en the minimu channel outpu tts is 19 dB."	Im average receiv t power (at TP2), Im permissible to sensitivity require a minimally comp question with the r the DWDM blac	ve power (at TP3 which is 19 dB." ss in the absolute ments in this spe bliant device. e following text: ck link can therefor ve power (at TP3	ore be calculated from) and the minimum e sense, since device ecification; rather, it is ore be calculated from) and the minimum ce meeting the		
Or something simila	ır.			C/ 154	SC 154.6		P 112	L 53	# R2-7		
oposed Response	Response Status 0			Huber, Tho	mas		Nokia				
				Comment	Туре Е	Comme					
		Two places in this paragraph (which extends onto page 113 below figure 154-3) are missing the hyphen in the PMD name.									
				Suggested	Domodu						
				Suggesteu	Remeay						
				00	e "100GBASE	ZR" to "1000	BASE-ZR"				

C/ 154A SC 154A.4	Ļ	P 137	L1	# R2-8	C/ 154	SC 154.9.9	P119	L 23	# <u>R</u> 2-10
lssenhuth, Tom		Issenhuth Co	nsulting, LLC,Hu	awei Technologies Co.,	Dawe, Pier	s J G	NVIDIA		
Comment Type E The table number is		nt Status D he table title			Comment *** Cor	51	Comment Status D d with the file jitterCornerIn10)0GBASE-ZR 2.j	pdf attached ***
SuggestedRemedy Add the Table numb Proposed Response		-5" to the table ti e Status O	itle		the EV fb/1863 optical be arbi	Mrms calculatio 3.5, which is too signals. See pr trarily low. It is o	omment 85 and D3.1 comment n used to implement G.698.2 high for real DSP receivers a resentation. This should be convenient to keep Jpkpk*fjit	2 has the effect o and a lot higher th reduced to 2 to 3 ter the same as f	f a CRU of 15 MHz or han for 802.3 PAM4 3 MHz, but should not for other 100Gb/s/lane
C/ 153 SC 153.2 .3 Dawe. Piers J G	3.2.5	P 92 NVIDIA	L 36	# R2-9	EVM b	lock processing	.1 MHz. The proposed reme . And see a related commen between transmitter and rece	t about jitter toler	
Comment Type TR	Commer	nt Status D			Suggested	Remedy			
The need for an exa	mple file contai e.org/downloads o be reviewed.	ining an example s/802.3/ has not If reviewers do r	gone away, and not agree on its o	before this project can correctness and	signals within t to:	ror vector magn s, shall be the limits given i	itude, as defined in Recomm n Table 154–7. e is as defined in Recommen		
SuggestedRemedy							tion that the samples are alig		
http://standards.ieee	org/downloads	s/802.3/.	•	deword is available at or at the same time as	NOTE- phase)	This may be a with a block siz	RU) with a corner frequency of chieved by correcting the pha are of 7000 UI rather than the itude shall be within the limits	ase of the symbol default 1000 UI b	ls (not the optical block size.
Proposed Response	Response	e Status O			Proposed I	Response	Response Status 0		
	-								

C/ 154	SC 154.9.15	P 119	L17	# R2-11	C/ 154A	SC 154A.3	P 134	L 47	# R2-12
Dawe, Pie	rs J G	NVIDIA			Dawe, Piers	rs J G	NVIDIA		
Comment	Type TR	Comment Status D			Comment 7	Туре Т	Comment Status D		
the E\	/Mrms way of spe	mment 85 and D3.1 comme cifying transmitter quality all	lows jitter on the	phase of the symbols		eting D3.1 con see 1.4.309 linł	nment 81: "This (welcome) and s segment.	nex is not about a	applications."
		nd must be tolerated by the ee "stressed sensitivity" or "j			Suggestedl	IRemedy			
clause toleran clause I belie doesn 19.5 ir The si jitter fo And so betwe	es and annexes. A nce it should be in es, though it could ve that this amoun 't change the sens n Table 154-8. inusoidal jitter cou or receiver conforr ee a related comm en transmitter and	As this is the only normative icluded here as in so many of be applied separately. Int of SJ on top of such a nois sitivity enough to warrant cha and be described by a formula mance test, if that is preferre nent about jitter generation, a d receiver correct. The number corner frequency as proport	receiver perform optical receiver s sy signal as for a anging the headl a in the style of 1 sd. so as to keep the bers in the sugge	ance spec, jitter tressed sensitivity a BER of 4.62e-3 ine numbers of 35 and 21.8.9.4, Sinusoidal e balance of burden	19.5 dE 154A.3 Change link dis Change or equa to "154 Change exampl	B (12.5 GHz) a 3 Example with le "For any app stance". le "Specifically le "154A.4 Exa al to 35 dB (12 4A.4 Example le "four example oles with OSNF	with OSNR at TP3 greater that es of DWDM black link applica	dB (12.5 GHz) ar k link distance" to l0" to "Specificall lications with OS n or equal to 35 o ations with OSNF	nd 35 dB (12.5 GHz) o "For any DWDM black y in an example of 40" NR at TP3 greater than dB (12.5 GHz)" R at TP3" to "four
Suggestee					point-to	o-point Etherne	et link segment where the PMI	Ds"	
the sir Table Param	nusoidal jitter of ea 154-12Applied s neter C	ne DQPSK symbol streams of ach of the frequency, amplitu sinusoidal jitter Case A Case B Case C Case 0.22 0.72 2.2 6.4	ude jitter pairs in		>= 35 c to: Tab and sin	dB (12.5 GHz) ble 154A-240 milarly for the r	channel example with OSNR text three tables.		(),
	amplitude (pk-pk)				Proposed F	Response	Response Status O		

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

7 1	SC 1.4.237b	P 23	L 35	# <u>R</u> 2-13	Cl 30		30.5.1.1.28		L13	# <u>R</u> 2-15
awe, Pie	ers J G	NVIDIA			Dawe, Pier	rs J G		NVIDIA		
from ⁻ PHY i The p PHY t is per Tx an as we and T	8.0 comment 87 a IP2 to TP3 becau s not TP2 (even t ath between PMD to PHY. As almos formed at TP2 as d Rs is at Rx, the II as being incorre	Comment Status D nd D3.1 comment 82 pointer se TP2 is not at the PMD, s hough a receiving DWDM P is is from MDI to MDI, or PM st every optical clause says, defined in 121.5.1, not at th DWDM channel is from MD oct by 802.3. If G.698.2 means and Rx, then TP3 is not rel	o a transmitting E HY can be called ID to PMD, or tra "NOTETransmi e MDI." If G.698 I to MDI and TP2 ans that there is s	DWDM TP3). nsmitter to receiver, or itter compliance testing .2 means that Ss is at is not relevant here,	not su <i>Suggested</i> Chang a PHY a PHY a PHY	Y that supports if <i>Remed</i> to e.g that us that us that us that tra	t, and the F y es FEC on es FEC on es FEC thi ansmits FE	Comment Status D -FEC at the MDI" doesn't r EC sublayer is separated ese: the medium link segment ough the PMD C-protected signals from th <i>Response Status</i> O	rom the MDI by	
transr chanr receiv	nitting DWDM PH el: DWDM chann ring DWDM PHY.'	DM channel: DWDM channe Y (TP2) to a receiving DWD el: The transmission path fro ' or, following throughout the draft.	M PHY (TP3). to	"1.4.237b DWDM	Cl 153 Dawe, Pier	rs J G	153.2.3.2.4	P89 NVIDIA Comment Status D	L 29	# R2-16
5005ed	Response SC 154.6	Response Status O	L 32	# R2-14		or colum ze (9 pc	oint).	s is much smaller than for r	ow numbers, wh	ich are at the preferre
we, Pie omment As 15	Type ER	NVIDIA <i>Comment Status</i> D optional. Editorial suggesti	ions at the end of		Please Proposed		them large se	r. Response Status O		
Chang The T Tx_R: PMA/ to: Option Tx_R: regist	x_optical_channe x_diff_opt_chan_a PMD register nam nally, the Tx_optic	al_channel_index, the Rx_o bility variables are mapped	to the relevant M ptical channel ir	DIO variables and ndex, and the	Suggested Chang 100GE "In ead and th 100GE	rs J G <i>Type</i> and far e <i>IRemed</i> je "The BASE-Z ch direc e BASE-Z	y 100GBASE R far end F tion of tran R Rx are a	P113 NVIDIA Comment Status D of defined, and anyway the E-ZR near end Tx, the asso Rx are all selected to have the smission, the 100GBASE-2	ciated DWDM cl he same channe IR Tx, the assoc	nannel, and the el center frequency." to iated DWDM channel
					Proposed	Respon	se	Response Status O		

C/ 154	SC 154.9.19	P 120	L 42	# R2-18	C/ 154	SC	154.7.1	P 115	L 32	# <u>R</u> 2-22			
Dawe, Pie	rs J G	NVIDIA			Ghiasi, Ali			Ghiasi Qu	antum LLC,Inphi C	Corporation			
Comment	Type TR	Comment Status D			Comment 7	Гуре	TR	Comment Status D					
is. An EVM o disper for chi	nex A says "The calculation in clau sion and differen romatic dispersio /ice versa. If the	reference receiver in Annex A reference receiver includes th use 7.2.12, except the first iter tial group delay". This might n and differential group delay se are additional steps that ar	ne following step m: compensate mean that the fin ' is included in E	es as defined in the for chromatic est item "compensate EVM but not in Annex	Error vector magnitude of 23% per ITU-T G.698.2 test procedure is measured with real time scope with B=1000 symbols. The issue with B=1000 is that in effect the equivalent CDR BW is 15.2 MHz which is about an order of magnitude larger than typical coherent DSP. Unless DSP suppliers can commit to 15 MHz timing recovery BW the standard wi have major interoperability issue. SuggestedRemedy								
Suaaestea	uggestedRemedy						To overcome this shortcoming recommend B=10000 symbols resulting in ~1.5 MHz corner						
Define more clearly what the differences between 7.2.12 and Annex A are.						frequency BW. Recommendation is to keep B=1000 for computation of carrier phase to avoid laser phase noise changing the EVM, but I/Q[mean] and I/Q(AC) are computed with 10000 symbols, see Dawes presentation.							
Proposed Response		Response Status O			Proposed I		-	Response Status O					
C/ 154	SC 154.9.7	P 119	L 13	# R2-19									
Dawe, Pie	rs J G	NVIDIA											
Comment	Туре Т	Comment Status D											
As this	s is defined by re	ference, its name should be i	dentical to that in	n the reference.									
Suggested	dRemedy												
		nce between X and Y polariza 698.2 which provides the defi											
Proposed	Response	Response Status O											
C/ 154	SC 154.9.8	P119	L18	# R2-20									
Dawe, Pie	rs J G	NVIDIA											
Comment As this	51	Comment Status D ference, its name should be id	dentical to that i	n the reference.									
Suggested													
Chang	ge "skew betweer	n X and Y polarizations", to "S des the definition. Also in Tab		e two polarizations", as									
	-												

Proposed Response Response Status **0**