## IEEE P802.3cw D2.4 400 Gb/s over DWDM systems 4th Working Group recirculation ballot comments

C/ 156 SC 156.8	P 101	L 31	# 1	C/ 156	SC 156.9.1	P 104	L 5	# 13
Maniloff, Eric	Ciena			Dawe, Pier	3	Nvidia		
comment Type T	Comment Status X			Comment 7	ype <b>TR</b>	Comment Status X		
sufficient detail. The	olation frequencies is not possible as t derivation of the values in Tabl			Ripple, and inte	polarization de	for frequency noise, some oth ependent loss, polarization rota osstalk at TP3 do not involve p optical parameters are inadequ	ation speed, adj atterns at all.	
uggestedRemedy				Suggested	,	ohnori harametere are mared.		
Add an equation to 1 with the equation will	56.8 that provides the values a be provided.	t arbitrary freque	ncies. A contribution	00	-	o Not applicable		
Proposed Response	Response Status <b>O</b>			Proposed F	esponse	Response Status <b>O</b>		
7 156 SC 156.8	P 102	L 13	# 2	C/ 156	SC 156.9.4	P 104	L <b>52</b>	# 3
laniloff, Eric	Ciena			Dawe, Pier	6	Nvidia		
omment Type <b>E</b> Fig 156-8 should be r illustrative but not suf	Comment Status X eplaced with a figure based or ficiently accurate.	n the actual value	es. Current figgure is		sts are single	Comment Status X spaced		
uggestedRemedy				Suggested	-		- 4504 4	
	n a more accurate figure.			Ŭ		ng to single spaced. Also for I	=q. 156A-1	
Proposed Response	Response Status O			Proposed F	esponse	Response Status <b>O</b>		
/ 156 SC 156.9.1	P 103	L <b>47</b>	# 14	C/ 156	SC 156.9.5	P 105	L <b>46</b>	# 9
		L 4/	# 14	Dawe, Pier	6	Nvidia		
output power stability	Nvidia Comment Status X d 400GBASE-ZR signal for av , and transmit output power ab annel power at maximum adjus absolute accuracy.	solute accuracy	it should be OK for	Table 1 measur is meas D2.1 co	ys "Laser frequ 56-11" but frequent ement of some sured (power s	Comment Status X uency noise is measured using quency noise is not measured ething else. This doesn't say v pectrum or phase noise) is cor optical parameters are inadequ ncy noise.	directly, it is de vhat is measure overted into free	rived from a . ed, or how, or how wha quency noise.
	o 5 or valid 400GBASE-R sign	al		Suggested	Remedy			
Proposed Response	Response Status <b>O</b>			Change this spec to power spectrum or phase noise, or add the missing information so that "frequency noise" is defined.				

Proposed Response Response Status **O** 

## IEEE P802.3cw D2.4 400 Gb/s over DWDM systems 4th Working Group recirculation ballot comments

a power spectral density D2.1 comments 285, opt specifically on frequency uggestedRemedy Change this spec to pow vs spectral power density Change "One-sided freq	ical parameters are inadeq noise. er spectrum or phase noise			the RM D2.1 c	<i>Type</i> <b>TR</b> ays that EVMm IS average (sta	Nvidia Comment Status X ax is the RMS addition of andard deviation), not the optical parameters are ina	sum.	1 values. I believe it is	
The units of frequency m a power spectral density D2.1 comments 285, opt specifically on frequency uggestedRemedy Change this spec to pow vs spectral power densit Change "One-sided freq	bise are Hz^2/Hz. No watts ical parameters are inadeq noise. er spectrum or phase noise			This sa the RM D2.1 co	ays that EVMm IS average (sta	ax is the RMS addition of andard deviation), not the	sum.	1 values. I believe it is	
a power spectral density D2.1 comments 285, opt specifically on frequency uggestedRemedy Change this spec to pow vs spectral power density Change "One-sided freq	ical parameters are inadeq noise. er spectrum or phase noise			the RM D2.1 c	ÍS average (sta	andard deviation), not the	sum.	I values. I believe it is	
Change this spec to pow vs spectral power densit Change "One-sided freq				Sugaastad	Remedy		acquatory defined.		
vs spectral power densit Change "One-sided freq					-	n to standard deviation			
"One sided frequency of	<ul> <li>to 156-13Frequency no uency noise power spectral iso power spectral density.</li> </ul>	oise mask density (Hz^2/H	lz)" in the table and	Proposed F		Response Status <b>O</b>			
"One-sided frequency noise power spectral density [Hz^2/Hz]" in the figure, to "One-sided frequency noise (Hz2/Hz) Change Figure 156-8Frequency vs spectral power density to Figure 156-8Frequency				C/ 156	SC 156.9.1	2 <i>P</i> 108	L <b>33</b>	# 8	
				Dawe, Pier	rs	Nvidia			
noise mask . Proposed Response				Comment 1	Type <b>TR</b>	Comment Status X			
side is shown, and the o summed (presumably in	P 106 Nvidia Comment Status X s and does not appear in th her is the same, or it might an RMS way). ical parameters are inadeq	mean that both	sides are to be	Suggested Say wh	<i>Remedy</i> nat is meant, fo er the amplitud	optical parameters are ina or example, the unsigned r es found with or without th <i>Response Status</i> <b>O</b>	atio of the amplitude	s of I and Q. Clarify	
specifically on frequency				C/ 156	SC 156.9.1	7 <i>P</i> 108	L <b>20</b>	# 7	
ggestedRemedy				Dawe, Pier	rs	Nvidia			
In the text, say which is meant.				Comment 7	Type <b>TR</b>	Comment Status X			
Proposed Response Response Status <b>O</b>				I did not find the term "limits of the C-band" in this document or in G.689.2. D2.1 comments 285, optical parameters are inadequately defined.					
				Suggested	Remedy				
						unsourced terminology, sa I96.175 THz might be app		According to Table	
				100 0,					

C/ 156 SC 156.9.17

## IEEE P802.3cw D2.4 400 Gb/s over DWDM systems 4th Working Group recirculation ballot comments

C/ <b>156</b>	SC 156.9.22	P 10	8 <i>L</i> 1	#	6
Dawe, Pie	ers	Nvidia			
Transı specif	pec item "Transm mit output power y the same thing	Comment Status nit output power contrr absolute accuracy (in ). ptical parameters are	ol absolute accur spite of the sligh	ntly different nan	
	efinition in 156.9.	19 is more complete, The +/- way is prefer		22. Consolidate	e the two
Proposed	Response	Response Status	0		
C/ 156	SC 156.9.27	P 10	9 L 40	) #	5
Dawe, Pie	ers	Nvidia			
chann D2.1 c Suggestec	el specs are not comments 285, o <i>Remedy</i> e optical path OS	G.698 EVM, which is o consistent. ptical parameters are NR penalty with a refe	inadequately def	ined.	
Proposed	Response	Response Status	0		
C/ 156	SC 156.10.1.	2.4 P 11	2 L 21	l #	4
Dawe, Pie	ers	Nvidia			
of at le D2.1 c	neasurement alre east 30 GHz". Fi	Comment Status ady has significant filt Itering it again without ptical parameters are	ering: "The cohe taking this into a	account would b	
Say th		urther filtered so that the			vation filter in
Say th	nat the signal is fu 0.1.1 Calibrated	urther filtered so that th coherent receiver and <i>Response Status</i>	this filter is the F		vation filter in

C/ 156 SC 156.10.1.2.4 Page 3 of 3 9/17/2023 10:08:40 AM