

,	5
C/ 156 SC 156.9.26 P 110 L 44 # 5	C/ 156 SC 156.9.15 P 108 L 5 # 7
Dawe, Piers Nvidia	Dawe, Piers Nvidia
Comment Type TR Comment Status D	Comment Type TR Comment Status D
The reference receiver for optical path OSNR penalty should be qualified as it is understood that the G.698.2 Annex A reference receiver is. I believe that an EVM calculation for assessing a transmitter does not do chromatic dispersion and differential group delay compensation (because EVM would be measured at TP2), while a measurement at TP3 after the black link needs chromatic dispersion and differential group delay compensation. For consistency, that should be done at both ends of the black link.	This and 156.9.16 say "in the range of the *central* frequency plus and minus the maximum spectral excursion as defined in OIF-400ZR-02.0, Implementation Agreement 400ZR section 13.4.2." 400ZR says "32 GHz Measured between the *nominal* central frequency of the channel and the -3.0dB points of the transmitter spectrum furthest from the nominal central frequency measured at point Ss. Includes Laser frequency accuracy (13.1.200) error value from nominal center frequency." 156.9.2 has "Optical *center* frequency" (vs. central)
SuggestedRemedy	156.9.6 has "Offset between the *carrier* and the *nominal center frequency* 156.9.17 has within / outside of *the signal's* -20 dB spectral mask points
Say that the reference receiver is as defined 156.10.1, with additional steps to compensate for chromatic dispersion and differential group delay. Two places in this subclause.	Figure 156-7 shows an upper mask -20 dB point at 40.4 GHz and the lower mask crosses - 20 dB, at about 31 GHz which is much nearer the OIF number.
Proposed Response Response Status W	D2.1 comments 285, optical parameters are inadequately defined.
PROPOSED REJECT.	SuggestedRemedy
It might be an improvement to make the changes proposed. This is not critical to address at this time, however the commenter is encouraged to resubmit this comment during SA Ballot.	Use consistent names. Throughout 156.7 and 156.9, change "the carrier" and "central frequency" to "center frequency" (or "transmitter center frequency" if necessary to distinguish the signal from the black link). Add or remove "nominal" as needed to make it explicit which one is being used in each case (including in 156A.3).
C/ 156A SC 156A.2 P 122 L 42 # 6	Change the two references to 400ZR section 13.4.2 and to the signal's -20 dB spectral mask points, to a new reference within this document:
Dawe, Piers Nvidia	Add a row in Table 156-7, Spectral half-width for OSNR, or some such name, and refer to
Comment Type TR Comment Status D bucket Table 156-1 uses a mix of "central frequency", "center frequency" and "target frequency	that (one could put the number in GHz in 159.9.15, 16, 17 but that would make it harder to refer to this material in future). Use a consistent number for all three sections.
demux frequency". "target frequency demux frequency" seems ungrammatical? D2.1 comments 285, optical parameters are inadequately defined.	Proposed Response Response Status W PROPOSED REJECT.
SuggestedRemedy	
Change them all to "center frequency" or "nominal center frequency" or "channel center frequency"as appropriate, to be consistent with 156.6.	It might be an improvement to make the changes proposed. This is not critical to address at this time, however the commenter is encouraged to resubmit this comment during SA Ballot.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
Change table title from "Table 156-1" to Table 156A-1". In Table 156A-1 change all instances to "central frequency" to "center frequency".	
With editorial license.	

C/ 156 SC 156	.9.13	P 107	L 43	# 8	C/ 156	SC 156	6.9.5	P 106	L 5	# 10
Dawe, Piers		Nvidia			Dawe, Piers	6		Nvidia		
Comment Type TI	Comment S	tatus D			Comment T	⁻ уре т	R	Comment Status D		
quadrature comp UI in the measure larger of the two i	ement, or it might be	" means. It mig that I and Q ph	ht be the phase ases are averag	omponent I and difference of all the ed somehow and the	Table 1 measu is meas D2.1 co	56-11" burement of sured (pow	ut frequ somet wer spe 285, op	ency noise is measured using lency noise is not measured thing else. This doesn't say ectrum or phase noise) is co ptical parameters are inadeq quency noise.	directly, it is den what is measure nverted into free	rived from a ed, or how, or how what quency noise.
	and completely what	is meant by " I-	Q phase error n	nagnitude (max)", and	Suggested	Remedy				
indicate how it mi			•	0 (),				wer spectrum or phase noise		
Proposed Response	Response St	atus W			Add the be mea		inform	ation so that "frequency nois	e" is defined, ar	nd indicate how it might
PROPOSED RE.	ECT.				Proposed F	Response		Response Status W		
	ange does not contai		ail so that the CF	RG can understand	PROPO	DSED RE	JECT.			
	ges that satisfy the co	omment.			This topic was addressed in D2.4 comment #9 and was rejected with no consensus to					
C/ 156 SC 156	.9.13	P 107	L 44	# 9	make a change. See https://www.ieee802.org/3/cw/comments/D2p4/8023cw_D2p4_comments_final_by_l					mente final hy ID ndf
Dawe, Piers		Nvidia			https://	www.ieee	002.01	g/3/cw/comments/D2p4/6023	bcw_D2p4_com	ments_mai_by_iD.put.
Comment Type TR Comment Status D					The proposed change does not contain sufficient detail so that the CRG can understand the specific changes that satisfy the comment.					
introduced. Then phase error magr Also, I would exp degrees), and wo method in the me Or it could be def would be about h It is too ambiguou D2.1 comments 2	itude and EVM. ect that I-Q phase en uld not rely on a loca asurement (see ano ined as max (I phase alf the first definition,	the draft does r ror magnitude v I oscillator, exc ther comment). - best fit), (Q p but doesn't go	oot make any co vould be abs (I p ept as a smooth hase - best fit - well with the na	nnection between I-Q hase - Q phase - 90 ing or averaging 90 degrees) which						
SuggestedRemedy										
	and completely what	is meant by " I-	Q phase error n	nagnitude (max)", and						
Write out clearly a		atus W								
Write out clearly a indicate how it mi	ght be measured. <i>Response St</i>	atus W								

C/ 156 SC 156.9.5 P 106 L 12 # 11	C/ 156 SC 156.9.1 P 104 L 15 # 13
Dawe, Piers Nvidia	Dawe, Piers Nvidia
Comment Type TR Comment Status D	Comment Type TR Comment Status D
The units of frequency noise are Hz^2/Hz. No watts or dB involved. So frequency noise, unlike a normal spectrum, is not a power spectral density. The table and graph show the mask, not an actual noise frequency. The figure has both " power spectral density" and " spectral power density". D2.1 comments 285, optical parameters are inadequately defined, D2.4 comment 10, and other comments specifically on frequency noise.	 Ripple, polarization dependent loss, polarization rotation speed, adjacent channel (spectral) isolation and interferometric crosstalk at TP3 are frequency-domain properties of the black link which as far as I know would be measured for any black link for any coherent link type, with equipment that might have no knowledge of P802.3cw. Interferometric crosstalk may be different. D2.4 comment 13. D2.1 comments 285, optical parameters are inadequately defined.
Change this spec to power spectrum or phase noise, or:	SuggestedRemedy
Change Table 156-13Frequency vs spectral power density to 156-13Frequency noise mask Change "One-sided frequency noise power spectral density (Hz^2/Hz)" in the table and "One-sided frequency noise power spectral density [Hz^2/Hz]" in the figure, to "One-sided	For Ripple, polarization dependent loss, polarization rotation speed, and adjacent channel (spectral) isolation, change 5 to Not applicable. If appropriate, add a reference to IEC 61300-3-29 Spectral transfer characteristics of DWDM devices (Edition 2.0 2014-03).
frequency noise (Hz2/Hz) Change Figure 156-8Frequency vs spectral power density to Figure 156-8Frequency noise mask .	Proposed Response Response Status W PROPOSED REJECT.
Proposed Response Response Status W	It is the editor's understanding, after consulting with subject matter experts, that all these
PROPOSED REJECT.	parameters can be measured with a modulated signal.
Frequency noise is defined as the power spectral density of the laser phase variations, in frequency units.	C/ 156 SC 156.9.4 P 105 L 27 # 14
C/ 156 SC 156.9.5 P 106 L 12 # 12	Dawe, Piers Nvidia Comment Type TR Comment Status D
	The vertical scale of the transmit spectral mask is not defined. We are told that it is in dB,
Dawe, Piers Nvidia Comment Type TR Comment Status D	but not what 0 dB means. Also the usual axis labels are missing. D2.1 comments 285, optical parameters are inadequately defined.
"One-sided" is ambiguous and does not appear in the text. It might mean that only one	SuggestedRemedy
side is shown, and the other is the same, or it might mean that both sides are to be summed (presumably in an RMS way). D2.1 comments 285, optical parameters are inadequately defined, D2.4 comment 11, and	In the text, say what 0 dB means, e.g. the peak of the spectrum, or that the implementer can slide the spectrum up or down for best fit, or whatever is meant. Label the y axis appropriately. Label the x axis, Frequency offset from the signal's center frequency
other comments specifically on frequency noise.	Proposed Response Response Status W
other comments specifically on frequency noise. SuggestedRemedy	
	PROPOSED REJECT.
SuggestedRemedy	PROPOSED REJECT. It might be an improvement to modify Figure 156-7 as proposed.This is not critical to

The proposed change does not contain sufficient detail so that the CRG can understand the specific changes that satisfy the comment.

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/ 156 SC 156.9.4	I P 104	L	# 15	C/ 156 SC 156.8	P 101	L 36	# <u>1</u> 8
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type TR	Comment Status D			Comment Type E	Comment Status D		bucke
	at "Relative to TP2 transmit ch			Double square bracke	ets		
	and adjacent channel spectral ck link and do not depend on a			SuggestedRemedy			
this is the wrong place	ce to give obscure technical hi			Can be reduced to sir			
patterns and subclau	ises.			Or, change 10log10{1	0^L/10[[][]]} to		
SuggestedRemedy				10log10[10^L/10{ } L+10log10[{ }{ }]	}] 01		
Delete this note. If s	omething needs to be said, sa	iy it in 156.9.25 a	nd/or 156.9.29.	alternating {} and [] fo	r readability		
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉				, but they are not common.		
PROPOSED REJEC	CT.			Proposed Response	Response Status W		
It might be an improv	/ement to make the changes p	roposod This is n	at critical to address	PROPOSED ACCEP	T IN PRINCIPLE.		
	the commenter is encouraged			Resolve using the res	ponse to comment #1.		
				C/ 156 SC 156.8	P 101	L 36	# 19
C/ 156 SC 156.9.		L 21	# 16	Dawe, Piers	Nvidia		
Dawe, Piers	Nvidia			Comment Type E	Comment Status D		buck
Comment Type ER	Comment Status D		bucket	In (a variable, in italic	s with a capital i)		
Adjacent channel iso	blation			SuggestedRemedy			
SuggestedRemedy				In (a function, upright	with a lower case L). Twice		
Adjacent channel sp	ectral isolation			Proposed Response	Response Status W		
Proposed Response PROPOSED ACCE	Response Status W PT IN PRINCIPLE.			PROPOSED ACCEP			
Change "Adjacent cl	nannel isolation" to "Adjacent s	pectral channel i	solation".	Resolve using the res	ponse to comment #2.		
C/ 156 SC 156.8	P 101	L 21	# 17				
Dawe, Piers	Nvidia						
Jawe, Fleis							
	Comment Status D						
Comment Type TR Now that we have ar	n explicit formula, the equation and there is no interpolation.	is the master, the	e table samples it, the				
Comment Type TR Now that we have ar figure illustrates it, a	explicit formula, the equation	is the master, the	e table samples it, the				
Comment Type TR Now that we have ar figure illustrates it, a SuggestedRemedy In Table 156-9, char	explicit formula, the equation	e Equation (156-1). At line 32, delete				
Comment Type TR Now that we have ar figure illustrates it, a SuggestedRemedy In Table 156-9, char	n explicit formula, the equation nd there is no interpolation. ge "See Table 156-10" to "See	e Equation (156-1). At line 32, delete				

C/ 155 SC 155.2.5.7	P 52	L 30	# 20	C/ 156 SC 156.9.5	P 106	L 50	# 21
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type T	Comment Status D			Comment Type TR	Comment Status D		

Figure 155-7 shows CRC32, MBAS and a pad as part of the SC-FEC input block. The text above says that the pad is not transmitted, and that the CRC and MBAS fields are transmitted at the end of each parity block. Is it says that the pad is not transmitted as part of the SC-FEC input block, and does not say the same for the CRC32 and MBAS, it gives the impression that they are transmitted here (as well as at the end of each parity block).

SuggestedRemedy

At line 1, change " The 34-bit of additional pad is not transmitted. The CRC and MBAS fields are transmitted at the end of each parity block." to "After parity generation, the CRC and MBAS fields are not included with the transmitted 244 664 bits of Bj; instead, they are transmitted at the end of each parity block."

At line 9, change "parity bits are mapped into columns 10 280 to 10 969" to "parity bits, CRC32 and MBAS are mapped into columns 10 280 to 10 969".

Proposed Response	Response Status	w
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PROPOSED REJECT.

It might be an improvement to change the wording as proposed. This is not critical to address at this time, however the commenter is encouraged to resubmit this comment during SA Ballot.

This says "The mask frequencies are relative to the laser center frequency from *less than*
100 Hz to half the signaling rate". The table goes from 100 Hz to 1 GHz. The figure goes
from 100 Hz to somewhere above 100 GHz.

A spec cannot have such vagueness and contradictions.

D2.1 comments 285, optical parameters are inadequately defined, and other comments specifically on frequency noise.

SuggestedRemedy

Delete "less than". To make the spec simpler and clearer, change "half the signaling rate" (which is 59.84375/2) to "30 GHz". In the table, add an extra row, 3 x 10^10 1.6 x 10^5. Make the line in the figure end at 30 GHz.

Proposed Response Response Status W

PROPOSED REJECT.

It might be an improvement to make the changes proposed. This is not critical to address at this time, however the commenter is encouraged to resubmit this comment during SA Ballot.

C/ 156	SC 156.10.1.1	P 111	L 25	# 22	C/ 155	SC 155	P 42	L 4	# 23
Dawe, Pi		Nvidia			Dawe, Pie		Nvidia		
Commen 16Q/ may need provi imple unint 802.3	tt Type T AM encodes 2 bits be inaccurate (4 m led. In general, it is gin needed for any r ide margin so that if ementation still pas tended limit, maybe 3 is not a specificat ss there is somethi	Comment Status D ber dimension. Measuring nus 2 is only 2!), dependin the implementer's respons neasurement, but saying "/ his customer measures w ses. Effectively it moves th 10%, but variable. This is	ng on the FFE tap sibility to conside 4 bits" here force rith such an instru- ne spec from 12% bad. about the require	o weights that are or the accuracy and s the implementer to ument, the 6 to some other ments, we should leave	Comment sluysk Other specif Ider agreei PCS/F	<i>Type</i> TR i_3cw_01a_220 Standards Org ications with de ntifying a comm ing with unsatis PMA needs exa Encoding examp	Comment Status D	y: I test methodolog I and 2318: this o FEC codeword o	gies. over-complicated examples, or Annex 76A,
Char The GHz to: The s	ENOB and samplin) and at least 1.15 t	g rate of the digitizers have imes the signaling rate. e digitizers is at least 1.15 t Response Status W	· ·		Either add th or don't, <i>Proposed</i>	: le codeword exa and cancel the	Response Status W	led to get to a co	omplete draft,
This and I	PROPOSED REJECT. This comment does not apply to the substantive changes between IEEE P802.3cw D2.4 and D2.5 or the unsatisfied negative comments from previous drafts. Hence it is not within the scope of the recirculation ballot.				provid how to rejecte https:/	e substantive a o modify the dra ed 3 previous til //www.ieee802.	atement of previous commer dditional rationale and does in ft. As noted in the comment mes. See org/3/cw/comments/D2p4/80. tions were encouraged but n	not provide the e , this issue has t 23cw_D2p4_con	ditors instructions on been raised and was nments_final_unsatisfied
					C/ 156	SC 156.9.9	P 107	L 11	# 24
					Dawe, Pie	rs	Nvidia		
					Comment	Туре Е	Comment Status D		bucket
							ubclause because its name of 156.10 "EVM conformance t		

SuggestedRemedy

Change the subclause title from "Error vector magnitude" to "Error vector magnitude (EVM)"

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 156 SC 156.9.12	P 107	L 36	# 25	C/ 156	SC '	156.9.9	P 107	L 16	# 27
Dawe, Piers	Nvidia			Dawe, Pier	S		Nvidia		
Comment Type TR C	omment Status D			Comment	Туре	TR Com	ment Status D		
This says "I-Q amplitude im averaged, nor any reference Also it is not stated whether The response to D2.4 comm D2.1 comments 285, optica SuggestedRemedy Write out clearly and compli- indicate how it might be me	to a definition. the I and Q amplitudes nent 8 improved this tex parameters are inaded etely what is meant by	s include the offse xt but not enough quately defined.	ets found in 156.9.11.	defined maxim calcula 20.4", ' of all th *refere definiti	d as a ra um mag ition, sa which s ne error nce* cc ons of t	atio of the root m gnitude of the *th iys "The EVMma: ays "EVM_MAX, vectors (average onstellation points he same thing. E	ation is defined in 15 ean square (RMS) v eoretical* constellati calculations are de is defined as a ratio ed over N symbols) t and provides form Editorial: gratuitous c	alue of all the err on points" but 15 fined in OIF-400, of the root mean o the maximum r ulae. There shou comma.	or vectors to the 6.10.1.2.7, EVMma ZR-02.0 section square (RMS) value nagnitude of all the
-	sponse Status W			Suggested			rameters are inadec	luately delined.	
PROPOSED REJECT.						•	defined as a ratio of	the root mean so	uare (RMS) value of
No suggested remedy instru The text as written is accura	te and sufficiently com	plete.		the err "NOTE square	or vecto	ors to the maximu s clause, EVM is value of all the e	im magnitude of the defined by EVMmax rror vectors to the m	theoretical const , which is the rat	ellation points" to io of the root mean
C/ 156 SC 156.10.1.2	P 112	L 28	# 26	Proposed I	Respon	se Respo	onse Status 🛛 🛛 🛛 🖤		
Dawe, Piers	Nvidia			PROP	OSED I	REJECT.			
According to the style guide subclauses only when there subclause. For example, Cla is no 156.10.2.	is more than one			at this Ballot.	time, ho	owever the comm	nake the changes pr nenter is encouraged	to resubmit this	comment during SA
SuggestedRemedy				C/ 156	SC ·	156.10.1.2.7	P 112	L 36	# 28
Promote 156.10.1.2 Offline	digital signal processin	g to become 156.	.10.2 Offline digital	Dawe, Pier			Nvidia		
signal processing and EVM				Comment			ment Status D		
PROPOSED ACCEPT IN P				This says "The EVMmax calculations are defined in OIF-400ZR-02.0, Implementation Agreement 400ZR section 20.4", which says EVM_MAX, is defined as a ratio of the roo mean square (RMS) value of all the error vectors (averaged over N symbols) to the maximum magnitude of all the reference constellation points" but it doesn't define reference constellation points. D2.1 comments 285, optical parameters are inadequately defined.					
Implement suggested remer With editorial license.	dy.								
with editorial license.				Suggested	Remed	у			
				conste	llation,	which may be sin	points - or define the npler because it sho all four corners are th	uld contain the sa	ame 16 points over a
				Proposed I	Respon	se Respo	onse Status 🛛 🛛 🛛 🛛 🛛 🗤		
				PROP	OSED I	REJECT.			
				The pr	oposed		t contain sufficient de	etail so that the C	RG can understan

the specific changes that satisfy the comment.

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

Comment ID 28

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C/ 155 SC 155.2	5.6 <i>P</i> 51	L 32	# 29	C/ 156	SC 156.	10.1.2.2	P 112	L 13	# 31
Dawe, Piers	Nvidia			Dawe, Pier	S		Nvidia		
Comment Type E	Comment Status D		bucket	Comment 7	Туре ТК	Com	ment Status D		
Homogeneity: The s standards to design		ughout each stan of an alternative t	dard or series of erm (synonym) for a	The fre mentio The tra The re The E The E	equency noi ons a laser li ansmit spec commende /M calculati ry, carrier p	se mask goe newidth of 50 trum is define d receiver for on uses bloc hase recover		it is particularly ncy offset. . from 10 MHz". larization demux npensation.	strict at 1 MHz, and it
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			Suggested	Remedy				
PROPOSED ACCE	PT IN PRINCIPLE.								ecovery, carrier phase
Change any "CRC"	to include the number of bits the	roughout the doc	ument				nsation to whatever ze a power of 2.	is appropriate fo	r that step.
0,		3		e.g. 16	384 UI to g		around 2 MHz for fre	equency offset re	ecovery and carrier
With editorial licens	е.				recovery.	ining 1000 UI	to 1024 LII		
C/ 155 SC 155.2	5.3 P 48	L 27	# 30	Proposed F	•	•	onse Status W		
Dawe, Piers	Nvidia			-	OSED REJI	-			
Comment Type E	Comment Status D		bucket						
This document use frame".	s "multi-frame" 27 times and m	ultiframe once.	6.709.2 uses "multi-	This is	not critical		ease the block size this time, however		is encouraged to
SuggestedRemedy				Tesubii			SA Ballot.		
Change multiframe	to multi-frame			C/ 156	SC 156.	9.4	P 105	L 5	# 32
Proposed Response	Response Status W			Dawe, Pier	S		Nvidia		
PROPOSED ACCE	PT IN PRINCIPLE.			Comment	51		ment Status D		
Ensure consistent u	se of "multi-frame" through the	document.		it isn't,	it's the freq	uency offset,	ns of GHz) is the fre as in the text on the rameters are inade	e previous page.	s is an optical spectrum
With editorial licens	e.			Suggested		<i>i</i> 1 1			
				00	2	to frequency	/ offset		
				Proposed I	Response	Respo	onse Status W		
				PROP	OSED REJ	ECT.			
				not crit		ess at this tim			" as proposed.This is uraged to resubmit this

C/ 155 SC 155.3.3.2.2	P 71	L 29	# 33	C/ 156 SC 156.9.5	P 106	L 47	# 36
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type E Comment S	Status D		bucket	Comment Type T Comment S	Status D		
This document uses I-Q offset 17 tim	nes and IQ offse	et five times.		Frequency [Hz]			
SuggestedRemedy				D2.1 comments 285, optical parameter	ers are inadeq	uately defined.	
Change the 6 to match the 17				SuggestedRemedy			
Proposed Response Response S	Status W			Frequency offset (Hz)			
PROPOSED ACCEPT IN PRINCIPL	E.			Proposed Response Response S	tatus W		
	4 h			PROPOSED REJECT.			
Ensure consistent use of "I-Q offset"	inroughout the	document.		It might be an improvement to change			
With editorial license.				156-7 as proposed. This is not critical			the commenter is
C/ 156 SC 156.10.1.2.5	P 112	L 23	# 34	encouraged to resubmit this commen	t during SA Ba	allot.	
Dawe, Piers	Nvidia		<i>"</i>	C/ 156 SC 156.9.5	P 105	L 48	# 37
Comment Type E Comment S			bucket	Dawe, Piers	Nvidia		
Offset			buoker	Comment Type T Comment S	Status D		
SuggestedRemedy				"by interpolating" is ambiguous: each	dimension cou	uld be extrapolate	d on a linear or log
offset				basis, for example.			
Proposed Response Response S				SuggestedRemedy			
PROPOSED ACCEPT IN PRINCIPL				Say explicitly what kind of interpolatio		uid be a good cho	DICE.
	L.			Proposed Response Response S	tatus W		
Change "Offset" to "offset".				PROPOSED REJECT.			
C/ 156 SC 156.10.1.2.2	P 112	L 13	# 35	This comment does not apply to the s			
Dawe, Piers	Nvidia			and D2.5 or the unsatisfied negative of the scope of the recirculation ballot.	comments from	n previous drafts.	Hence it is not within
Comment Type E Comment S	Status D						
Inconsistent terminology							
SuggestedRemedy							
Change symbols to unit intervals							
Proposed Response Response S	status W						

C/ 155	SC 155.2.5.11	P 54	L 30	# 38
Dawe, Pier	ſS	Nvidia		

Comment Type **TR** Comment Status **D**

As in unsatisfied comments 20463 and 2338: this says "The generic operation of the Hamming encoder is specified in ITU-T G.709.3 Annex D". Generic is not adequate; we need a complete and unambiguous specification. G.709.3 Annex D is one page long. Unfortunately, it relies on undefined items that look like s, S, ^ V and overbar, so it does not specify. Also it is not clear what they mean by matrix multiplication, for example.

SuggestedRemedy

Write out the relevant material, similar to what 400ZR has done, defining all the terms and symbols in the usual way for equations, and correcting any mistakes. Of course, write it so that 119-bit message m (instead of b) is encoded to 128-bit codeword c.

Proposed Response Response Status W

PROPOSED REJECT.

This comment is restatement of previous comments 20463 and 2338, does not provide substantive additional rationale and does not provide the editors instructions on how to modify the draft. As noted in the comment, this issue has been raised and was rejected 2 previous times. See

https://www.ieee802.org/3/cw/comments/D2p4/8023cw_D2p4_comments_final_unsatisfied by ID.pdf.

C/ 155	SC 155.2.5.11	P 54	L 34	# 39
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Dawe, Piers

Nvidia

Comment Type TR Comment Status D

Unsatisfied comments 20427, 21281 and 2318: this over-complicated PCS/PMA needs examples, as in Annex 91A, RS-FEC codeword examples, or Annex 76A, FEC Encoding example, or the OIF test vectors for 400ZR, or P802.3df Annex 172A. Even this comparatively simple systematic double-extended Hamming encoder has opportunities for ambiguity and misunderstanding.

SuggestedRemedy

Add tables for g, H, B, P and G, and an example of c and m.

Proposed Response Response Status W

PROPOSED REJECT.

This comment is restatement of previous comments 20427, 21281 and 2318, does not provide substantive additional rationale and does not provide the editors instructions on how to modify the draft. As noted in the comment, this issue has been raised and was rejected 3 previous times. See

https://www.ieee802.org/3/cw/comments/D2p4/8023cw_D2p4_comments_final_unsatisfied by ID.pdf. Contributions were encouraged but none have been received.

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