C/ 155	SC 155.2.4.5	P 42	L 34	# 1	C/ 156	SC 156.1	P	75	L 16	# 3
Nicholl, Gary		Cisco Systen	ns		Nicholl, Ga	iry	Cisco	o Systems		
Comment Typ	pe E	Comment Status A			Comment	Туре Е	Comment Status	Α		bucket
	d to indicate that	DI<0:2>" at the bottom of t LDI<0> corresponds to S			in both		escription of the 400GA and Clause 154 , where AUI-8 C2M".			
SuggestedRe	emedy				Suggested	Remedy				
		understanding in the comn it clear it is referring to STA		hen perhaps move the	Update 151.	e all of the 400	OGAUI descriptions to u	use the sar	ne format as i	used in 802.3cu, Clause
	an up some of th inder Byte numb	e other formatting in Figur er 4 and 5.	e 155-4, eg the '	'JC" bytes are not	Response ACCEI	PT IN PRINCI	Response Status PLE.	С		
	IN PRINCIPLE	Response Status C align JC bytes correctly.	Delete I DI<0:23	since it causes the	C2C" a		es in the Table 156-1 fr nodule 400GAUI-x" to ' revision			
		es. Check that only LD, a			C/ 156	SC 156.1.	1 P 7	76	L 39	# 4
needed.					Nicholl, Ga	iry	Cisc	o Systems		
C/ 155	SC 155.2.5.7.1	P 50	L 40	# 2	Comment	Туре Е	Comment Status	A		bucket
	pe E 55-9. Should this	Cisco Systen <i>Comment Status</i> A figure contain a breakout		nat of the STAT byte,	clause (see C	is "see Claus		e should pr	obably be"	
as is don	e in Figure 155-	4 in section 155.2.4.5 ?			Suggested	Remedy				
SuggestedRe Add brea	•	/te as done in Figure 155-₄	4.				ect format (according to view the rest of Clause			cross-referencing nd fix where necessary.
Response		Response Status C			Response		Response Status	С		
ACCEPT	IN PRINCIPLE				ACCEI	PT IN PRINCI	IPLE.			
	akout of STAT to ere in response t	Figure 155-9 as per Figur o comment #1.	e 155-4 but with	the other modificaitons			ss reference from "(155 issues through out the			correct any other cross

	-
C/ 156 SC 156.3.2 P 77 L 41 # 5	C/ 156 SC 156.6 P 81 L 40 # 7
Nicholl, Gary Cisco Systems	Nicholl, Gary Cisco Systems
Comment Type T Comment Status A	Comment Type E Comment Status R
The first paragraph refers to "FEC lanes". This appears to be the only two reference to "FEC lanes" in the whole draft. There is also no separate FEC Sublayer in this draft, and Clause 155 only calls out a 400GBASE-ZR PCS. This appears to be similar as to what was done in Clause 119, in which case there are no "FEC lanes" and only "PCS lanes" (as the PCS includes the FEC).	"The 400GBASE-ZR PMD is specified on the basis that it can be connected to a DWDM black link that contains a portion where multiple DWDM opticall channels are present, each connected to a separate 400GBASE-ZR transmitter." The text "that contains a portion" is confusing, possible incorrect, and may have been inserted by mistake.
PCS includes the FEC).	SuggestedRemedy
It appears that the current wording might have been copied from 802.3ct, where there is a separate FEC sub-layer and "FEC lanes" is the correct terminology.	Change: " The 400GBASE-ZR PMD is specified on the basis that it can be connected to a DWDM
SuggestedRemedy	black link that contains a portion where multiple DWDM opticall channels are present, each connected to a separate 400GBASE-ZR transmitter."
In the first paragraph of 156.3.2, replace "FEC lanes" with "PCS lanes". Another solution would be go with the approach adopted in the equivalent section in Clause 122, and replace "FEC lanes" with "lanes".	To: "The 400GBASE-ZR PMD is specified on the basis that it can be connected to a DWDM black link where multiple DWDM opticall channels are present, each connected to a separate 400GBASE-ZR transmitter."
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	REJECT.
Replace "FEC lanes" with "lanes"	
C/ 156 SC 156.5.4 P 80 L 4 # 6	This language is consistent with the language used in P802.3ct 2021.
Nicholl, Gary Cisco Systems	C/ 156 SC 156.9.1 P 88 L 38 # 8
Comment Type E Comment Status A	Nicholl, Gary Cisco Systems
The second sentence refers to a "CFEC sublayer" and then references section 155.2.1. The is no separate "FEC sub-layer" in this draft. There is only the PCS sublyaer defined in Clause 155, which happens to include a CFEC.	Comment Type T Comment Status R Table 156-11. Should the pattern called out in the first three rows of this table be "400GBASE-ZR" and not "400GBASE-R" (see Clause 155 and Figure 155-1)?
SuggestedRemedy	SuggestedRemedy
Change:	Replace "400GBASE-R" with "400GBASE-ZR" in the first three rows of Table 156-11.
"The presence of a valid signal is determined only by the CFEC sublayer (see 155.2.1)" To:	Response Response Status C
"The presence of a valid signal is determined only by the PCS sublayer (see 155.2.1)"	REJECT.
Response Response Status C ACCEPT IN PRINCIPLE.	Use of x00GBASE-R is consistent with 802.3ct and 802.3cu.
Change the second sentence to "The presence of a valid signal is determined only by the	
400GBASE-ZR PCS (see 155.2.1)."	
TVDE: TP/tochnical required EP/editorial required CP/general required T/tochnical E/editorial C/	apporal Comment ID 9 Page 2 of 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 Z/withdrawn SORT ORDER: Comment ID

C/ 156 SC 156.10 Nicholl, Gary Comment Type T	1 P 93 Cisco Syster	L 45 ns	# 9	C/ 156 SC 156.1		L 48	# 11
	Cisco Syster	ns		1			
Comment Type T				Issenhuth, Tom	Huawei		
shown in 156-6. How	Comment Status A connect the DP-16QAM trans ever Figure 156-6 shows the	DP-16QAM trans	,	Comment Type E Text reads "introdu SuggestedRemedy	Comment Status A ced in 116", missing Clause.		bucket
	e receiver" and not a "constella	ation analyzer".		Change to "introduc	ced in Clause 45"		
SuggestedRemedy	sentence in 156.10.1 from:			Response	Response Status C		
"Connect the 400 Gb	/s DP- 16QAM transmitter and d between 2 m and 5 m in len		alyzer using a single-	ACCEPT IN PRINC	,		
To:	/s DP-16QAM transmitter to th		e reference using a	See response to co	omment 4.		
	tch cord between 2 m and 5 m		a contraction of the second seco	C/ 156 SC 156.1	P 76	L 34	# 12
Response	Response Status C			Issenhuth, Tom	Huawei		
ACCEPT IN PRINCI	PLE. sentence in 156.10.1 from:			Comment Type E Text reads "(see 78	<i>Comment Status</i> A 3)", missing Clause.		bucket
"Connect the 400 Gb mode fiber patch cor	/s DP- 16QAM transmitter and d between 2 m and 5 m in leng		alyzer using a single-	SuggestedRemedy Change to "(see Cla	ause 78)"		
	/s DP-16QAM transmitter to th tch cord between 2 m and 5 m		e receiver using a	Response ACCEPT IN PRINC	Response Status C CIPLE.		
C/ 156 SC 156.1	P 75	L 14	# 10	See response to co	omment 4.		
Issenhuth, Tom	Huawei			C/ 156 SC 156.1	.1 <i>P</i> 76	L 39	# 13
Comment Type E Text reads "defined i	Comment Status A n 45", missing Clause.		bucket	Issenhuth, Tom	Huawei	- •••	
SuggestedRemedy Change to "defined in				Comment Type E Text reads "PMA (1	<i>Comment Status</i> A 155)", missing see and Clause.		bucket
Response ACCEPT IN PRINCI	Response Status C			<i>SuggestedRemedy</i> Change to "PMA (s	ee Clause 155)"		
See response to con				Response ACCEPT IN PRINC	Response Status C CIPLE.		

C/ 156 SC 156.1.1 P 76	L 42	# 14	C/ 155 SC 155.2.4.1 P 40 L 13 # 17
Issenhuth, Tom Huawei			Issenhuth, Tom Huawei
Comment Type E Comment Status A Text reads "CFEC (155)", missing see and Clause.		bucket	Comment Type E Comment Status A bucket Text reads "rate matching described at 119.2.4.1"
SuggestedRemedy Change to "CFEC (see Clause 155)"			SuggestedRemedy Typical wording is "described in". Change to read "rate matching described in 119.2.4.1"
Response Response Status C ACCEPT IN PRINCIPLE.			Response Response Status C ACCEPT.
See response to comment 4.			C/ 155 SC 155.2.5.10 P 51 L 40 # 18
C/ 156 SC 156.4 P 78	L 9	# 15	Issenhuth, Tom Huawei
Issenhuth, Tom Huawei			Comment Type E Comment Status A bucket
Comment Type E Comment Status A		bucket	Text reads "GMP de-mapper described at 155.2.5.8"
Text reads "described in 45", missing Clause.			SuggestedRemedy
SuggestedRemedy			Typical wording is "described in". Change to read "GMP de-mapper described in 155.2.5.8"
Change to "described in Clause 45"			Response Response Status C
Response Response Status C			ACCEPT.
ACCEPT IN PRINCIPLE.			CI 155 SC 155.3.3.3 P 56 L 29 # 19
See response to comment 4.			Issenhuth, Tom Huawei
		# 40	Comment Type E Comment Status A bucket
C/FM SC FM P2	L 46	# 16	Text reads "gray mapped".
Issenhuth, Tom Huawei Comment Type E Comment Status A		h l t	SuggestedRemedy
Comment Type E Comment Status A Copyright is shown as 2021. This issue continues	throughout the dr	bucket	Gray should be capitalized so change to "Gray mapped"
Copyright is shown as 2021. This issue continues	unoughout the do		Response Response Status C
Summa stad Dama du			ACCEPT.
SuggestedRemedy	t to 2022		
Update the copyright year throughout the documen	t to 2022.		
	t to 2022.		

C/ 156 SC 156.7.1 P 84 L 41 # 20	C/ 156 SC 156.9.14a P 92 L 39 # 22
ewis, David Lumentum	Lewis, David Lumentum
Comment Type TR Comment Status A	Comment Type TR Comment Status A
Out-of-band OSNR (min) has been set to a relaxed value (23 dB) in other specifications for	Need a definition of transmitter out-of-band OSNR.
DWDM links that do not include color-less add/drop components such as ROADMs. Since our intended use case does not include ROADMs in the network, we should adopt the	SuggestedRemedy
same value	Insert a new subclause after 156.9.14 with the following text: "The transmitter out-of-band
SuggestedRemedy	OSNR shall be within the limits given in Table 156-6. Out-of-band OSNR is the ratio of transmit signal power between the -20 dB spectral mask points of Figure 156-4 to the
Replace TBD with 23 dB.	maximum optical noise power within any optical bandwidth of 0.1 nm at 193.7 THz or 12.5
Response Response Status C	GHz outside of the -20 dB spectral mask points.
ACCEPT IN PRINCIPLE.	Response Response Status C
Replace TBD with 23	ACCEPT IN PRINCIPLE.
X 156 SC 156.9 P 88 L 37 # 21	Insert a new subclause 156.9.14a with the following text:
ewis. David Lumentum	The transmitter out-of-band OSNR shall be within the limits given in Table 156-6. Out-of-
Comment Type TR Comment Status A	band OSNR is defined as the ratio of the total signal power within the signal's -20 dB spectral mask points to the maximum integrated noise power (referred to 12.5 GHz)
Transmitter OOB OSNR is not listed in Table 156-11.	outside of the signal's -20 dB spectral mask points out to the limits of the C-band. See
SuggestedRemedy	Figure 156-4.
Add a row for Transmitter out-of-band OSNR with pattern 5, and a new related subclause	NOTE—This definition of OSNR is consistent with the definition of OSNR in ITU-T
156.9.xx	G.698.2, except that in this clause the noise power density is referred to 12.5 GHz, instead of 0.1 nm in G.698.2. At a frequency of 193.6 GHz a measurement bandwidth of 0.1 nm is
Response Response Status C	identical to 12.5 GHz.
ACCEPT IN PRINCIPLE.	With editorial license.
Add a row for Transmitter out-of-band OSNR with pattern 5 in Table 156-11 after transmitter in-band OSNR, and a new related subclause 156.9.14a. With editorial license.	C/ 156 SC 156.7.2 P 86 L 22 # 23
	Lewis, David Lumentum
	Comment Type T Comment Status A
	Back-to-back measurements on multiple receivers with multiple different transmitters were reported in rahn_3cw_01a_220223. Those results support the receiver OSNR tolerance o 26 dB in Table 156-7. The value for receiver OSNR with transmitter and DWDM link impairments needs to be set higher than the tolerance value by a reasonable margin, say dB.
	SuggestedRemedy
	Replace TBD with 28 dB
	Response Response Status C
	Response Response Status C ACCEPT IN PRINCIPLE.

C/ 156 SC 15	6.7.2 P 86	L 18	# 24	C/ 156 SC 156	8	P 86	L 43	# 26		
Lewis, David	Lumentur	m		Lewis, David		Lumentum				
Receiver damag	Comment Status A ge threshold is a component ration r link operation. Coherent recei	ing specification rath	er than a required	Comment Type T Set the value of r		ament Status A a practical value.				
dBm, but are int	ended to operate normally at m	uch lower power leve	els, e.g12 to 0 dBm.	SuggestedRemedy Suggest a max va	llue of 2.5 dB	3				
	mage threshold value from the t	able.		Response ACCEPT IN PRIN		onse Status C				
Response	Response Status C									
ACCEPT IN PR	INCIPLE.			In Table 156-8, fo	r Ripple (max	x) replace TBD with 2	.5			
Retain Damage	threshold in Table 156-7 and re	place TBD with 6.		C/ 156 SC 156	8	P 87	L 7	# 27		
CI 156 SC 15	6.9.18 P 93	L 9	# 25	Lewis, David		Lumentum				
ewis, David	Lumentur	m		Comment Type T		ment Status A needs to cover a rang				
link. G.698.2 de spectral excursi excursion with p and transmit spe	ed in ITU-T G.698.2 is not the rig efines ripple as the roll-off of the on of the transmitter. For 802.30 parameters for transmit spectral ectrum (min) in Table 156-6. Th	tic at the maximum transmitter spectral ransmit spectrum (max) of the DWDM black	the gain of the pr	e-amplifier to patchcords. <i>I</i>	ink. The line system account for the loss t A good minimum valu	hrough the dem				
	defined with respect to the cha			Response	Resp	onse Status C				
SuggestedRemedy				ACCEPT IN PRIM	ICIPLE.					
	the maximum peak-to-peak ins nd, spaced +/- 32 GHz from the			In Table 156-8, fo TBD with -12	r Average ou	tput power at TP3 (m	in) for OSNR at	TP3 (12.5GHz) replace		
Response	Response Status C			C/ 156 SC 156	8	P 87	L 10	# 28		
ACCEPT IN PR	INCIPLE.			Lewis, David		Lumentum				
	8 to read "The ripple is the max	timum peak-to-peak i	insertion loss variation	Comment Type T Comment Status A						
between 3dB pc	ints in the channel passband."	he channel passband."				be the same value as value of 28 dB and if				
				SuggestedRemedy						
				Replace TBD with 28 dB						
				Response	Resp	onse Status C				
				ACCEPT IN PRIM	ICIPLE.					

C/ 156 SC 156.8	P 87	L 27	# 29	C/ 156	SC 156	6.7.1	P 84	L	# 31
Lewis, David	Lumentum			Sluyski, Mi	ke		Cisco System	s	
Comment Type T	Comment Status R			Comment	Гуре Т	R	Comment Status R		
Interferometric crosstalk is the wanted power within a ASE) that would remain if other link conditions the s isolation in Table 156-9, v	single channel. The distu the wanted signal were re ame. Because we are def	rbing power is t moved from the ining limits for a	he power (not including link, while leaving all djacent channel	The pro of usin can su	oposed ch g EVM me	anges is ethodolog goal of er	56-6: TX Clock Phase Noi part of a general proposal gy, and instead replacing it nsuring interop. A support	to modify the with a known	industry approach that
SuggestedRemedy				Suggested	Remedy				
Delete the parameter "inte	erferometric crosstalk at T	⊃3 (max)".					56-6: TX Clock Phase No		
Response	Response Status C			Add Ma	ask, defini	tion and	test methodology in 156.9.	X: TX Clock P	hase Noise (PN):
REJECT. Based on task force discu (max) in Table 156-8 with		ain interferome	ric crosstalk at TP3	-1201.0 -1301.0	00E+04 00E+05 00E+06 00E+07				
C/ 156 SC 156.7.1	P 84	L 49	# 30	Phase	noise, L(f),			
Sluyski, Mike	Cisco System	s		f o-f k	aud/128=				
Comment Type TR	Comment Status D			1_0-1_1	auu/120-	~407.55			
Remove parameter in Tab The proposed change is p	part of a general proposal t	o modify the cu		Mask o separa		pply to sp	purs, broadband phase noi	se only. Spure	s are considered
of using EVM methodolog				Response		I	Response Status C		
can support the goal of er the Task Force for review		ng presentation	will be presented into	REJEC	T.				
SuggestedRemedy				Insuffic	ient justifi	cation pr	ovided to add TX Clock Ph	ase Noise (Pl	N) to Table 156-6 and
Remove parameter from	156-6: Error Vector magni	tude (max).		there w	ere conce	erns on th	ne measurability.	, , , , , , , , , , , , , , , , , , ,	,
Removal is not required if (optional) specification an		an be considere	d a supplementary		/ poll was 1, No: 10	taken " I	supporting rejecting comm	nent 31"	
Proposed Response	Response Status Z								
REJECT.									
This comment was WITH	DRAWN by the commente	er.							

156 SC 156.7.1	P 84	L 36	# 32	C/ 156	SC 156.7.1	P 84	L	# 33
uyski, Mike	Cisco System:	S		 Sluyski, Mi	ke	Cisco Syste	ms	
Add parameter to table 156-6: T phase jitter between 10kHz and The proposed changes is part of of using EVM methodology, and can support the goal of ensuring the Task Force for review.	10MHz- a general proposal instead replacing it	to modify the ci with a known in	urrent draft's approach dustry approach that	phase The pr of usin can su	arameter to table jitter between 1 oposed change g EVM methodo	Comment Status R e 156-6: TX clock Phase Noi MHz and 200MHz s is part of a general proposi- ology, and instead replacing f ensuring interop. A suppo- iew.	al to modify the it with a knowr	e current draft's approach i industry approach that
ıggestedRemedy				Suggested	Remedy			
Add Parameter to Table 156-6: phase jitter between 10kHz and Add defintion and test methodol total integrated RMS phase jitter	10MHz. With value: ogy in 156.9.x - Tx ((See 156.9.x) Clock Phase No	•	RMS p Add de integra	hase jitter betw efinition and test	ble 156-6: Tx clock phase no een 1MHz and 200MHz. Wit methodology in 156.9.x: Tx jitter between 1MHz and 20	h value (See 1 K clock Phase	56.9.x)
rms random jitter:				σ ri−1	//2πf c) √/2·∫ (f_1)^(f_2) [10^((L(f))/10) df	1)	
σ_rj=1/(2πf_c)√(2·∫_(f_1)^(f_2))	[[10^((L(f))/10) df]])			0_1]=1	/(211_C) ((2)_(1)	
				rms pe	eriodic jitter (spu	rs):		
rms periodic jitter (spurs):				σ (pii)=1/(√2 πf_c)·1	0^(s_i/20)		
σ_(pj,i)=1/(√2 πf_c)·10^(s_i/20)				(-),	,			
whore				where,				
where, ■(f_1=10kHz,@f_2=10MHz,@f_ (PN)@s_i=individual spur in [dB		.53MHz@L(f)=p	bhase noise	(PN),@	€s_i=individual	0MHz,@f_c=f_baud/128=46 spur in [dBc])	7.53MHz,@L(f)=phase noise
rms total jitter:					tal jitter: (〖σ_rj〗^2+∑_(i=	1)^N [[σ_(pj,i)]]^2)		
σ_tj=√(〖σ_rj〗^2+∑_(i=1)^N∭〖σ_	(pj,i)]]^2)			where,				
where,				∎(N=to	otal number of s	ours).		
∎(N=total number of spurs).				Response		Response Status C		
	nse Status C			REJEC	CT.			
REJECT. Insufficient justification provided integrated RMS phase jitter betv	to add TX Clock Ph			integra concer	ated RMS phase ons on the meas	,	0MHz to Table	156-6 and there were
concerns on the measurability.				I NIS CO	Simment was rel	ated to comment 31 which w	vas rejected via	a suaw poli
This comment was related to co								

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 Z/withdrawn SORT ORDER: Comment ID

Comment Type TR Comment Status A Add parameter to table 156-6: IQ amplitude imbalance (mean). The proposed changes is part of a general proposal to modify the current draft's approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. Add parameter to table 156-6: IQ phase error (max). The proposed changes is part of a general proposal to modify the current draft's approach of using EVM methodology, and instead replacing it with a known industry approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. SuggestedRemedy Add New Parameter to Table 156-6: IQ amplitude imbalance (mean). With value 1 dB Add definition and test methodology in 156.9.x: IQ amplitude imbalance (mean). Definition and test methodology to be provided. SuggestedRemedy Add New Parameter to Table 156-6: IQ amplitude imbalance (mean). With value 1 dB Add New Parameter to Table 156-6: IQ phase error (max). With value +5 deg Add definition and test methodology to be provided. Response Response Status C Add New Parameter to Table 156-6: IQ amplitude imbalance (mean) in 156.9.x as a TBD. Add New Parameter to Table 156-6: IQ phase error (max) with a value of 5 deg. Add definition and test methodology for IQ amplitude imbalance (mean) in 156.9.x as a TBD. Add definition and test methodology for IQ phase error (max) in 156.9.x as a TBD. With editorial license. With editorial license. Ci 156 SC 156.7.1 P 84 L # 37	C/ 156 SC 156.7	7.1 <i>P</i> 84	L	# 34	C/ 156	SC 1	56.7.1	P 84	L	# 36
Add parameter to table 156-6: IQ applitude imbalance (mean). Add parameter to table 156-6: IQ phase error (max) - The proposed changes is part of a general proposal to modify the current draft's approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. UggestedRemedy Add New Parameter to Table 156-6: IQ amplitude imbalance (mean). With value 1 dB Add definition and test methodology in 156.9.x. IC amplitude imbalance (mean). Definition and test methodology in 156.9.x. IC amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) in 156.9.x as a TBD. With editorial license. C Vith editorial license. P 84 L # 33 Vith editorial license. C 156 SC 186.7.1 P 84 L # 33 Vith editorial license. C 156 SC 186.7.1 P 84 L # 33 Vith editorial license. C 156 SC 186.7.1 P 84 L # 33 Vith editorial license. C 156 SC 186.7.1 P 84 L # 33 Vith editorial license. C 156 SC 186.7.1 P 84 L # 37 Vith editorial license. C 156 SC 186.7.1 P 84 L # 37 Vith editorial license. C 156 SC 186	Sluyski, Mike	Cisco Syste	ms		Sluyski, N	like		Cisco System	าร	
The proposed changes is part of a general proposal to modify the current draft's approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. SuggestedRemedy Add New Parameter to Table 156-6: IQ amplitude imbalance (mean). With value 1 dB Add definition and test methodology in 156.9.x: IQ amplitude imbalance (mean). Definition and test methodology to be provided. Response Response Status C ACCEPT IN PRINCIPLE. Add New Parameter to Table 156-6: IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Response Status C ACCEPT IN PRINCIPLE. Add definition and test methodology for IQ amplitude imbalance (mean) in 156.9.x as a TBD. With editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (156 SC 156.7.1 P 84 L # 37 Vith editorial license. (216 SC 156.7.1 P 84 L # 37 Vith editorial license. (216 SC 156.7.1 P 84 L # 37 Vith editorial license.	Comment Type TR	Comment Status A			Comment	Туре	TR	Comment Status A		
SuggestedRemedy Add New Parameter to Table 156-6: IQ paper error (max). With value +5 deg Add New Parameter to Table 156-6: IQ amplitude imbalance (mean). Definition and test methodology to be provided. Response Response Status C ACCEPT IN PRINCIPLE. Add New Parameter to Table 156-6: IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) in 156.9.x as a TBD. With editorial license. With editorial license. Ci 156. SC 156.7.1 P 84 L # 35 C/ 156 SC 156.7.1 P 84 L # 35 Comment Type TR Comment Status A Add New Parameter to Table 156-6: IQ phase error (min) Add parameter to Table 156-6: IQ quadrature skew (max) Add New Parameter to Table 156-6: IQ phase error (min). With value -5 deg Add Parameter to Table 156-6: IQ quadrature skew (max) Add Mew Parameter to Table 156-6: IQ phase error (min). With value -5 deg Add New Parameter to Table 156-6: IQ quadrature skew (max): Add Mew Parameter to Table 156-6: IQ phase error (min). With value -5 deg Add New Parameter to Table 156-6: IQ quadrature skew (max): Add Mew Parameter to Table 156-6: IQ phase error (min). With value -5 deg Add definitini and test	The proposed chan of using EVM meth can support the go	nges is part of a general proposi nodology, and instead replacing al of ensuring interop. A suppo	al to modify the it with a known	industry approach that	gener instea intero	ral proposa ad replacir pp. A supp	al to modi ng it with a porting pre	ify the current draft's appro a known industry approach	ach of using E that can suppo	VM methodology, and ort the goal of ensuring
Add Vew Parameter to Table 156-6: IQ amplitude imbalance (mean). With value 1 dB Add definition and test methodology in 156.9.x: IQ phase error (max): Definition and test methodology to be provided. Response Response Status C ACCEPT IN PRINCIPLE. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add feinition and test methodology for IQ amplitude imbalance (mean) with a value of 1 dB. Add definition and test methodology in 156.9.x. IQ uparature skew (max) Vith editorial license. Cisco Systems Cisco Systems Comment Type TR Comment Status A Add Mew Parameter to Table 156-6: IQ phase error (min). Mith a known industry approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. SuggestedRemedy	SuggestedRemedy							able 156-6: 10 phase error	(max) With v	alue +5 deg
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Buyski, Mike Cisco Systems Comment Type TR Comment Status A Add New Parameter: IQ phase error (min)- The proposed changes is part of a general proposal to modify the current draft's approach of using EVM methodology, and instead replacing it with a known industry approach that can support the goal of ensuring interop. A supporting presentation will be presented into the Task Force for review. Comment Type TR Comment Status A SuggestedRemedy Add New Parameter to Table 156-6: IQ phase error (min). With value: -5 deg Add definition and test methodology to be provided. SuggestedRemedy Add New Parameter to Table 156-6: IQ phase error (min). With value: -5 deg Add definition and test methodology to be provided. Response Status C Response Response Status C ACCEPT IN PRINCIPLE. Add New Parameter to Table 156-6: IQ phase error (min) with a value of -5 deg. Add New Parameter to Table 156-6: IQ quadrature skew (max) in 156.9.x as a TBD.	C/ 156 SC 156.7	7.1 <i>P</i> 84	L	# 35	Sluyski, N	like		Cisco Systen	ıs	
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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 Z/withdrawn SORT ORDER: Comment ID

C/ 156 SC 156.7.1	P 84	L	# 38	C/ 156	SC 156.7.1	P 84	L	# 39
Sluyski, Mike	Cisco Syste	ms		Sluyski, Mi	ke	Cisco Syst	ems	
Comment Type TR	Comment Status A			Comment	Type TR	Comment Status A		
	e 156-6: Transmit Ouptut Po alk when operating on 75 Gl		min) - New parameter			e 156-6: Transmit Ouptut F alk when operating on 75 (nax) - New parameter
SuggestedRemedy				Suggested	Remedy			
Add New Parameter: T dB.	ransmit Outut Power Stabil	ity (min) to Ta	ble 156-6. With value -1	Add No dB.	ew Parameter to	o Table 156-6: Transmit Ou	ıptut Power Stabi	ility (max). With value +1
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Output power stability o temperature.	over time (EOL) when opera	ating at a fixed	l wavelength and	Output tempe	•	over time (EOL) when ope	rating at a fixed v	wavelength and
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ACCEPT IN PRINCIPL	.E.			ACCE	PT IN PRINCIP	LE.		
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Is defined as "Output p	:: Transmit Output Power St power worst case deviation f emperature." Add paramete "	rom a target s		With e	ditorial license.			
With editorial license.								

156 SC 156.7.1 P 84	L	# 40	C/ 156	SC 1	156.7.1	P 84		L	# 41
ıyski, Mike Cisco System	s		Sluyski, Mi	ike		Cisco	Systems	i	
mment Type TR Comment Status A			Comment	Туре	TR	Comment Status	A		
Add New Parameter to table 156-6: Transmit Output parameter required to address Xtalk when operating		Accuracy (min) - New				table 156-6: Transmit d to address Xtalk wh			
ggestedRemedy			Suggested	IRemedy	y				
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Definition and test Methodology to be provided.									
Absolute accuracy of delivered transmit output power Power setting. When operating at a fixed wavelength				setting.		elivered transmit outp perating at a fixed way			
(EOL).			Response			Response Status	C		
When operating at a fixed wavelength over temperation	e (EOL).	ACCE	PT IN P	RINCIPL	E.				
sponse Response Status C ACCEPT IN PRINCIPLE.				ew Para alue +1		Table 156-6 : Transm	it Outpu	t Power Absc	olute Accuracy (max).
Add New Parameter to Table 156-6 : Transmit Outp	ut Power Absolut	e Accuracy (min).	C/ 156	SC 1	156.7.1	P 84		L	# 42
With value -1 dB			Sluyski, Mi	ike		Cisco	Systems	;	
Add subclause 156.9.x: Transmit Output Power Abs Is defined as "Absolute accuracy of transmit output	power relative to		Comment [·] Update		TR -band OS	Comment Status SNR (min) in table 156		value TBD	
Power setting when operating at a fixed wavelength parameter to Table 156-11 with pattern "valid 400GE			Suggested	Remedy	v				
With editorial license.			Update	e TBD ir	n Table 1	56 with value 23 dB/0 methodology in 156.9		of-band OSNF	R(min):
			freque	ncy poir	nts, refere	defined as the Tx sign enced to the maximun 193.7 THz or 12.5 GF	optical	noise power	
			Response ACCE		RINCIPL	<i>Response Status</i> E.	C		
			See re	sponses	s to comi	ments 20, 21 and 22			

hang, Bo Marvell Comment Type TR Comment Status A Address TBD value UggestedRemedy Given the methodology adopted in 802.3ct, suggest the following two categories. For average receive power < -12dBm, min Receiver OSNR is 24dB. For average receive power >= -12dBm, min Receiver OSNR is 29dB.	7 156	SC 156.9.10	P 92	L 3,4, 8	# 43	C/ 156	SC 156.9.1	P 89	L 19	# 45
Change Text in Clause 156.9.10: - The proposed change is part of a general proposal to modify the current draft's approach of using EVM methodogy, and instead replacing it with a known industry approach that can support the goal of ensuring interop. A supporting used replacing it with a known industry approach that can support the goal of ensuring interop. A supporting used replacing it with a known industry approach that can support the goal of ensuring interop. A supporting used replacing it with a known industry approach that can support the goal of ensuring interop. A supporting used replacing it with a known industry approach that can support the goal of ensuring interop. A support is goal of ensuring interop is goal of ensuring inter	luyski, Mi	ke	Cisco Systems	5		Zhang, Bo		Marvell		
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with a known industry approach that can support the goal of ensuming interop. A supporting presentation will be presented into the Task Force for review. SuggestedRemedy gestedRenedy Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. Response Status C Change Line 8 as: The components of the (optional) EVM test setup are described in 156.10.1 Response Status Z Response Status Z REJECT. Response Status Z It a 46 This comment was WITHDRAWN by the commenter. It a 46 V156 SC 156.2.2 P 86 L 22 # 44 comment Type TR Comment Status A Remove optical path OSNR penalty (max) in Table 156 Signest methodology adopted in 802.3ct, suggest the following two categories. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive power <-124Bm, min Receiver OSNR is 34dB. For average receive powe	Chang	e Text in Clause	e 156.9.10: - The proposed cl	nange is part of a	general proposal to	Remov	e optical path (OSNR penalty parameter		
presentation will be presented into the Task Force for review. Given there is no such parameter defined in the optical spec table, there is no need to list in table 156-11 gestedRemedy Removes sentence: The error vector magnitude shall be within the limits given in Table 156-11 Remove sentence: The error vector magnitude shall be within the limits given in Table 156-11 Response Status C Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. Change Line 8 as: The components of the (optional) EVM test setup are described in 156-10.1 roposed Response Response Status Z P 86 L 22 # 44 / 156 SC 156.7.2 P 86 L 22 # 44 omment Type TR Comment Status A Address TBD value uggestedRemedy Given there is no such parameter defined in the optical spec table, there is no need to define it. response Response Status C Address TBD value uggestedRemedy Given there is no such parameter defined in the optical spec table, there is no need to define it. response Response Status C Address TBD value uggestedRemedy Given there is no such parameter defined in the optical spec table, there is no need to define it. Given there is no such parameter defined in the optical spec table, there is no need to define it. <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Suggested</td><td>Remedy</td><td></td><td></td><td></td></td<>						Suggested	Remedy			
uggestedRemedy Remove sentence: The error vector magnitude shall be within the limits given in Table 156-6 if measured using the methods specified in 156.10.1.1 and 156.10.1.2. Remove sentence: The error vector magnitude shall be within the limits given in Table 156-6 if measured using the methods specification and test. Change Line 8 as: The components of the (optional) EVM test setup are described in 156.10.1 roposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. // 156 SC 156.7.2 P 86 L 22 # 44 formment Type TR Comment Status A Address TBD value Given the methodology adopted in 802.3ct, suggest the following two categories. For average receiver power <-12dBm, min Receiver OSNR is 34dB. For average receive power <-12dBm, min Receiver OSNR is 34dB. For average receive power <-12dBm, min Receiver OSNR is 28dB.					interop. A supporting	Given t	here is no sucl	n parameter defined in the op	tical spec table, t	here is no need to list
Remove sentence: The error vector magnitude shall be within the limits given in Table 156-61 fmeasured using the methods specified in 156:10.1.1 and 156:10.1.2. Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. Change Line 8 as: The components of the (optional) EVM test setup are described in 156:10.1 P 96 L 13 # 46 This comment was WITHDRAWN by the commenter. If 156 SC 156.7.2 P 86 L 22 # 44 VingestedRemedy Given the methodology adopted in 802.3ct, suggest the following two categories. For average receive power >= -12dBm, min Receiver OSNR is 29dB. P 86 L 22 # 44 UggestedRemedy Given the methodology adopted in 802.3ct, suggest the following two categories. For average receive power >= -12dBm, min Receiver OSNR is 29dB. For average receive power <= -12dBm, min Receiver OSNR is 29dB.	uggested	Remedy				in Tabl	e 156-11			
specified in 156.10.1.1 and 156.10.1.2. Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. Change Line 8 as: The components of the (optional) EVM test setup are described in 156.10.1 roposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. // 156 SC 156.7.2 P 86 L 22 # 44 hang, Bo Marvell comment Type TR Comment Status A Address TBD value uggestedRemedy Given the methodology adopted in 802.3ct, suggest the following two categories. For average receive power >= -12dBm, min Receiver OSNR is 34dB. For average receive power >= -12dBm, min Receiver OSNR is 29dB. esponse Response Status C ACCEPT IN PRINCIPLE.		-	e error vector magnitude shall	be within the limi	ts given in Table	-		,		
Removal is not required if TF can agree that EVM can be considered a supplementary (optional) specification and test. 11. It noticed there was a previous mistake in removing Optical path OSNR penalty (max from Table 156-8 per D1.2 comment 25. Insert Optical path OSNR penalty (max) in Table 156-8 with a value of 3 dB. With editorial license. Change Line 8 as: The components of the (optional) EVM test setup are described in 156.0.1 10. It noticed there was a previous mistake in removing Optical path OSNR penalty (max from Table 156-8 per D1.2 comment 25. Insert Optical path OSNR penalty (max) in Table 156-8 with a value of 3 dB. With editorial license. 7 Intercomment was WITHDRAWN by the commenter. 7 11. It noticed there was a previous mistake in removing Optical path OSNR penalty (max) in Table 156-8 with a value of 3 dB. With editorial license. 7 156 SC 156.7.2 P 86 L 22 # 44 moment Type TR Comment Status R moment Type TR Comment Status A Address TBD value uggestedRemedy Given there tes no such parameter defined in the optical spec table, there is no need to a dire it. Response Response Status C ACCEPT IN PRINCIPLE. C Accept IN PRINCIPLE.	156–6	if measured usi	ing the methods		C C					
156.10.1 C/ 156 SC 156.9.19 P 96 L 13 # 46 roposed Response Response Status Z REJECT. C/ 156 SC 156.7.2 P 86 L 22 # 44 // 156 SC 156.7.2 P 86 L 22 # 44 Comment Type ER Comment Status R // 156 SC 156.7.2 P 86 L 22 # 44 Comment Type TR Comment Status A Address TBD value Marvell Comment Status A Response Response Status C REJECT. Given the methodology adopted in 802.3ct, suggest the following two categories. For average receive power <-12dBm, min Receiver OSNR is 34dB. For average receive power <-12dBm, min Receiver OSNR is 29dB.				n be considered	a supplementary	11. It r from Ta	noticed there w able 156-8 per	as a previous mistake in rem D1.2 comment 25. Insert Op	oving Optical path	n OSNR penalty (max)
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hang, Bo Marvell hang, Bo Marvell Hang, Bo Marvel	11110 00		•			Suggested	Remedy			
ionment Type TR iongestedRemedy Response iongestedRemedy See response to comment 45. iongestedRemety - 12dBm, min Receiver OSNR is 34dB. For average receive power i= 12dBm, min Receiver OSNR is 29dB. iesponse Response Status	7 156 Thang, Bo	SC 156.7.2		L 22	# 44			n parameter defined in the op	tical spec table, t	here is no need to
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ACCEPT IN PRINCIPLE.	averag	e receive powe	r < -12dBm, min Receiver OSI							
In Table 156-7 for Receiver OSNR (min) replace TBD with 29.	Response ACCEI	PT IN PRINCIP	•							
	In Tabl	le 156-7 for Rec	eiver OSNR (min) replace TBl	D with 29.						

	SC 156.9.17	P 93	L 1	# 47	C/ 156	SC 156.10.1.1	P 94	4 <i>L</i> 44	# 50
Zhang, Bo		Marvell			Zhang, Bo		Marve		
Comment Type TR Comment Status A Provide Receiver OSNR tolerance definition					Comment T Address	<i>ype</i> TR s TBD value	Comment Status	Α	
SuggestedF	Remedy				SuggestedF	Remedy			
		m OSNR that the receiver of			Sugges	t sampling rate c	of 1.15 samples per	symbol	
case co	ompliant transmit	an the CFEC threshold. The ter, but it does not have to b tical crosstalk, etc."			Response ACCEP	T IN PRINCIPLE	Response Status	С	
Response		Response Status C			Poplac	n "TRD(1) timos t	the symbol rate" with	a "at loast 1 15 time	s the symbol rate"
ACCEF	PT IN PRINCIPLE	<u>.</u>			Періасс		ine symbol rate with		is the symbol rate
transmi PDL or	itter, but it does r optical crosstalk		ine impairments	such as CD, PMD,					
C/ 156	SC 156.10.1.1		L 43	# 48					
Zhang, Bo		Marvell							
Comment T Addres	<i>Туре</i> тк is TBD value	Comment Status A							
_	Domody								
Suggestedł	Remeuy								
	•	ver bandwidth of at least 300	GHz (roughly hal	f the symbol rate)					
Sugges	•	ver bandwidth of at least 300 Response Status C	GHz (roughly hal	f the symbol rate)					
Sugges Response	•	Response Status C	GHz (roughly hal	f the symbol rate)					
Sugges Response ACCEP	st coherent receiv	Response Status C E.	GHz (roughly hal	f the symbol rate)					
Response ACCEP	st coherent receiv	Response Status C E. n "30 GHz"	GHz (roughly hal	f the symbol rate) # 49					
Sugges Response ACCEP Replace Cl 156	St coherent receiv PT IN PRINCIPLE Se "TBD GHz" wit	Response Status C E. n "30 GHz"							
Sugges Response ACCEF Replace C/ 156 Zhang, Bo Comment T	St coherent receive PT IN PRINCIPLE are "TBD GHz" with SC 156.10.1.1	Response Status C E. h "30 GHz" P 94							
Sugges Response ACCEP Cl 156 Zhang, Bo Comment T Address SuggestedF	e "TBD GHz" wit SC 156.10.1.1 Type TR STBD value Remedy	Response Status C E. n "30 GHz" P 94 Marvell	L 44						
Sugges Response ACCEP Cl 156 Zhang, Bo Comment T Address SuggestedF Suggess Response	e "TBD GHz" wit SC 156.10.1.1 Type TR STBD value Remedy	Response Status C n "30 GHz" P 94 Marvell Comment Status A of at least 4 bit (over freque Response Status C	L 44						

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 Z/withdrawn SORT ORDER: Comment ID