C/ FM	SC FM	P 10	L 16	# 231	C/ 1 SC 1.3	P 21	L 8	# 5
Brown, Ma	tt	Huawei			Marris, Arthur	Cadence De	esign Systems	
	al layer" should	Comment Status D be capitalized		bucket		Comment Status D ed in 155.2.5.10 include refe on G.709.3—Flexible OTN lo		buck
Also, a page 1	•	" to "Physical Layer" cations			SuggestedRemedy	endation G.709.3—Flexible (<i>Response Status</i> W	-	
roposed F	-	Response Status W			PROPOSED ACCEPT	Г.		
•	OSED ACCEPT	,			C/ 45 SC 45.2.1.1	51.1 <i>P</i> 25	L 37	# 11
	I not be changed	'physical layer" on page 10 is d. Change "physical layer" to			Ran, Adee Comment Type E	Cisco <i>Comment Status</i> D ne specific optical frequency	corresponding to	buck
:/ 00	SC 0	P 12	L 47	# 1	number is listed in Tat	ble 154-5 and for 400GBASE to channel index number is lis	E-ZR the specific of	ptical frequency
aubach, N	<i>l</i> lark	Ciena			The newly added text	(starting with "and") makes t	ha contanca hard	to road, and it doos
omment 7	Type E	Comment Status D		bucket			the sentence hard	to read, and it does
	51	cv project, it states the anne	exes that were ad		not match the text in the	ne subsequent paragraph.		
lf you l	ook at the 802.3	cy project, it states the anne	exes that were ad		SuggestedRemedy			
lf you le Suggestedi	ook at the 802.3 R <i>emedy</i> e "Clause 155 ar	cy project, it states the anne nd Clause 156" to "Clause 15		ded.	SuggestedRemedy Change the quoted tex "The specific optical fr			
If you le Suggestedi Change Annex Proposed F	ook at the 802.3 Remedy e "Clause 155 ar 156A".	nd Clause 156" to "Clause 15 Response Status W		ded.	SuggestedRemedy Change the quoted tex "The specific optical fr	xt to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W		
If you le uggestedi Change Annex roposed F PROP(ook at the 802.3 Re <i>medy</i> e "Clause 155 ar 156A". Response	nd Clause 156" to "Clause 15 Response Status W		ded.	SuggestedRemedy Change the quoted tey "The specific optical fr Table 154-5 for 100GE Proposed Response	xt to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W F.		
If you le uggestedi Change Annex roposed F PROP(cook at the 802.3 Remedy e "Clause 155 at 156A". Response DSED ACCEPT. SC 0	nd Clause 156" to "Clause 15 Response Status W	55, Clause 156, A	ded. Innex 155A, and	SuggestedRemedy Change the quoted tex "The specific optical fr Table 154-5 for 100GE Proposed Response PROPOSED ACCEPT	xt to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W F.	4 for 400GBASE-2	ZR".
If you le uggestedi Change Annex roposed F PROPO 7 00 Grow, Rob omment 7	cook at the 802.3 Remedy e "Clause 155 at 156A". Response OSED ACCEPT. SC 0 ert	nd Clause 156" to "Clause 15 Response Status W P 20 RMG Consult Comment Status D	55, Clause 156, A	ded. Innex 155A, and	SuggestedRemedy Change the quoted tex "The specific optical fr Table 154-5 for 100GE Proposed Response PROPOSED ACCEPT CI 45 SC 45.2.1.1 Ran, Adee Comment Type E	xt to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W F. 53a.1 <i>P</i> 27	4 for 400GBASE-2	ZR". # <u>13</u> buck
If you le luggestedi Change Annex Proposed F PROPO T 00 Grow, Rob Comment T	cook at the 802.3 Remedy e "Clause 155 at 156A". Response DSED ACCEPT. SC 0 ert Type E How did 2022 ge Remedy	nd Clause 156" to "Clause 15 Response Status W P 20 RMG Consult Comment Status D	55, Clause 156, A	ded. Annex 155A, and # [8	SuggestedRemedy Change the quoted tex "The specific optical fr Table 154-5 for 100GE Proposed Response PROPOSED ACCEPT Cl 45 SC 45.2.1.19 Ran, Adee Comment Type E There is only one appr Comment applies simi	xt to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W T. 53a.1 <i>P</i> 27 Cisco <i>Comment Status</i> D ropriate PMD clause. The te	4 for 400GBASE-2	ZR". # <u>13</u> buck
If you le uggestedi Change Annex PROPO 7 00 Grow, Rob comment 7 Oops! uggestedi Delete Proposed F	A solution of the solution of	nd Clause 156" to "Clause 15 Response Status W P 20 RMG Consult Comment Status D	55, Clause 156, A	ded. Annex 155A, and # [8	SuggestedRemedy Change the quoted tex "The specific optical fr Table 154-5 for 100GE Proposed Response PROPOSED ACCEPT CI 45 SC 45.2.1.18 Ran, Adee Comment Type E There is only one appr Comment applies simi	At to requency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W F. 53a.1 <i>P</i> 27 Cisco <i>Comment Status</i> D ropriate PMD clause. The te- ilarly in 45.2.1.157a.1.	4 for 400GBASE-2	# <u>13</u> buck
If you le uggestedi Change Annex PROPO 7 00 Grow, Rob comment 7 Oops! uggestedi Delete Proposed F	Nook at the 802.3 Remedy e "Clause 155 at 156A". Response DSED ACCEPT. SC 0 ert Type E How did 2022 ge Remedy "2022" Response	nd Clause 156" to "Clause 15 Response Status W P 20 RMG Consult Comment Status D et inserted here.	55, Clause 156, A	ded. Annex 155A, and # [8	SuggestedRemedy Change the quoted tex "The specific optical fr Table 154-5 for 100GE Proposed Response PROPOSED ACCEPT Cl 45 SC 45.2.1.19 Ran, Adee Comment Type E There is only one appr Comment applies simi SuggestedRemedy Change to "The optica	equency corresponding to e BASE-ZR and in Table 156– <i>Response Status</i> W F. 53a.1 <i>P</i> 27 Cisco <i>Comment Status</i> D ropriate PMD clause. The te- ilarly in 45.2.1.157a.1.	4 for 400GBASE-2	# <u>13</u> <i>buck</i>

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/45Page 1 of 43COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC45.5/5/2023 10:44:33 AMSORT ORDER: Clause, Subclause, page, line

C/ 45	SC 45.2.1.153a.1	P 27	L 39	# 14		CI 45	SC 45.2.1.22	8 P 30	L 22	# 95
Ran, Adee		Cisco				Bruckman,	, Leon	Huawei		
Comment T <u>i</u> Paragra	<i>ype</i> E Co oph break before the	omment Status D		b	oucket	Comment T This co	<i>Type</i> T punter is for unco	Comment Status D		bucke
SuggestedF Delete i	it.					<i>Suggested</i> Replac counte	e "aSC-FEC co	rrected codewords counter"	with "SC-FEC un	corrected codewords
Proposed R PROPC	SED ACCEPT.	sponse Status W				Proposed I	Response OSED ACCEPT	Response Status W		
Cl 45 Bruckman,	SC 45.2.1.227	Р 30 Ниажеі	L 16	# 94				onse to comment #16.		
Comment T		omment Status D		b	ucket	C/ 45	SC 45.2.1.22	8 P 30	L 23	# 16
Wrong i	reference					Ran, Adee		Cisco		
SuggestedR Replace	Re <i>medy</i> e "and 155.2.6.1" with	n "and 155.2.6.5"				Comment T The titl	51: -	Comment Status D use does not match the bas	e document.	bucke
Proposed R PROPC	Response Res DSED ACCEPT IN PF	sponse Status W RINCIPLE.				<i>Suggested</i> Chang	•	ncorrected codewords coun	ter (Register 1.22	78, 1.2279)".
Resolve	e using the response	to comment #15.				Proposed I PROP	Response OSED ACCEPT	Response Status W		
C/ 45 Ran, Adee	SC 45.2.1.227	P 30 Cisco	L 17	# 15		CI 45	SC 45.2.1.22	8 <i>P</i> 30	L 24	# 96
Comment T <u>.</u> "See 15	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	<i>mment Status</i> D 1 for a definition of this	counter."	b	oucket	Bruckman, Comment		Huawei Comment Status D		bucke
("this" is	s the SC-FEC correct	ed codewords counter)				Suggested				
	er, 155.2.6.1 is titled ' ne this counter.	Hamming SD-FEC dec	oder" - a very di	fferent FEC, and do	oes	Replace Proposed I		1" with "and 155.2.6.5" Response Status W		
The app	propriate reference se	ems to be 155.5.1.				,	OSED ACCEPT	,		
SuggestedF						Resolv	e using the resp	onse to comment #17.		
Proposed R PROPC	Response Res	sponse Status 🛛 🛛 🛛 🛛 🛛 🖤								

C/ 45 SC 45.2.1.228

	⊃ 30 <i>L</i> 25	# 17	C/ 45 SC 45.2.1.230 P 30 L 4	40 # 98
Ran, Adee Cis Comment Type ER Comment State	sco us D	bucket	Bruckman, Leon Huawei Comment Type T Comment Status D	bucke
155.2.6.1 is an incorrect cross reference.			Wrong reference	
SuggestedRemedy Change to 155.5.2.			SuggestedRemedy Replace "and 155.2.6.1" with "and 155.2.6.5"	
Proposed Response Response Statu PROPOSED ACCEPT.	ıs W		Proposed Response Response Status W PROPOSED ACCEPT.	
CI 45 SC 45.2.1.229 H	^D 30 <i>L</i> 32	# 97	CI 45 SC 45.2.1.230 P 30 L 4	11 # 19
Bruckman, Leon Hu	Jawei		Ran, Adee Cisco	
Comment Type T Comment State Total bits is fully defined in 153.2.5.3, cla		<i>bucket</i> thing.	Comment Type ER Comment Status D 155.2.6.1 is an incorrect cross reference.	bucke
SuggestedRemedy Delete refernce to 155.2.6.1			SuggestedRemedy Change to 155.5.4.	
Proposed Response Response Statu PROPOSED ACCEPT IN PRINCIPLE.	ıs W		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
Deleting reference to 155.2.6.1 means the delete this subclause.	nere is no change to the ex	isting 45.2.1.229 text so	Resolve using the response to comment #98. 155.5.4 only already stated in the subclause.	points to 153.2.5.4 which is
C/ 45 SC 45.2.1.229 H	⊃ 30 <i>L</i> 32	# 18	C/ 45 SC 45.2.3.61.1 P 31 L 4	4 # <u>9</u> 9
Ran, Adee Ci	SCO		Bruckman, Leon Huawei	
Comment Type ER Comment State 155.2.6.1 is an incorrect cross reference		bucket	Comment Type T Comment Status D Wrong reference	bucke
SuggestedRemedy Change to 155.5.3.			SuggestedRemedy Replace: "155.2.5.1" with: "155.2.5.5.2"	
Proposed Response Response Statu PROPOSED ACCEPT IN PRINCIPLE.	us W		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
Resolve using the response to comment already stated in the subclause.	#97. 155.5.3 only points t	o 153.2.5.3 which is	Resolve using the response to comment #20.	

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: Clause, Subclause, page, line

C/ 45 SC 45.2.3.61.1 Page 3 of 43 5/5/2023 10:44:34 AM

C/ 45 SC 45.2.3.61	.1 <i>P</i> 31	L 5	# 20	C/ 116 SC	C 116.1.2	P 32	L 20	# 136
Ran, Adee	Cisco			Dudek, Mike		Marvell		
Comment Type ER	Comment Status D		bucket	Comment Type	т	Comment Status D		bucket
155.2.5.1 is an incorrec	t cross reference.					BASE-R PHY should use the	e 200GBASE-F	R PCS and PMA, not a
SuggestedRemedy					-ZR PCS and	I PMA.		
Change to 155.4.2.				SuggestedReme	•			
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			0		PCS and PMA to 200GBASE	E-R PCS and P	INA
PROPOSED ACCEPT.				Proposed Respo		Response Status W		
C/ 45 SC 45.2.3.61	.4 <i>P</i> 31	L 21	# 100	PROPOSEL	J ACCEPT IN	N PRINCIPLE.		
Bruckman, Leon	Huawei	<i>L</i> Z I		The comme PCS and PI		for Figure 116-1. Change "2	200GBASE-ZR	" to "200GBASE-R" for
Comment Type T	Comment Status D		bucket	C/ 116 SC	2 116.1.3	P 33	L 12	# 22
Wrong reference				Ran, Adee		Cisco		
SuggestedRemedy				Comment Type	Е	Comment Status D		bucket
Replace: "155.2.5.2" w				The new en	try in Table 1	16-2 says "using 400GBASE	E-ZR PCS and	PMA encoding". This is
Proposed Response	Response Status W			different from	m all other ro	ws which simply use "encod	ing". This detai	l is not helpful.
PROPOSED ACCEPT	IN PRINCIPLE.			SuggestedReme	-			
Resolve using the resp	onse to comment #21.			-	-	ASE-ZR encoding".		
C/ 45 SC 45.2.3.61	.4 <i>P</i> 31	L 22	# 21	Proposed Respo		Response Status W		
Ran, Adee	Cisco			PROPOSEI	D ACCEPT.			
Comment Type ER	Comment Status D		bucket	C/ 116 SC	C 116.3	P 33	L 3	# 155
155.2.5.2 is an incorrec	t cross reference.			D'Ambrosia, Jol	hn	Futurewei, U.S	S. Subsidiary of	Huawei
SuggestedRemedy				Comment Type	ER	Comment Status X		bucket
Change to 155.2.6.5.				The insertio if this is a Fi		6-5a is showing up as part c	of 116.3. It is n	ot clear to commenter
Proposed Response	Response Status W			SuggestedReme	edv			
PROPOSED ACCEPT.				Ensure that	the addition	of Table 116-5a is in 116.1.4	ŀ.	
				Proposed Resp	onse	Response Status W		
				, ,	I PRINCIPLE	,		
				Resolve usi	ng the respor	nse to comment #23.		

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: Clause, Subclause, page, line

C/ 116 SC 116.3 Page 4 of 43 5/5/2023 10:44:34 AM

C/ 116 SC 116.3	P 33	L 33	# 161	C/ 116 SC	116.4	P 34	L 24	# 162
Huber, Thomas	Nokia			Huber, Thomas		Nokia		
Comment Type E	Comment Status D		bucket	Comment Type	Е	Comment Status D		buck
This clause is in the 55a) is still part of clau	wrong place - the material on t use 116.1.4	ne next page (ab	out inserting table 116-	The heading 116.4.3, 116		lld be 116.2 rather than 116.4 l.5 as well.	4 - this applies to	o all the subheadings
SuggestedRemedy				SuggestedReme	dy			
Move the material fro incorrectly) numbere	om line 33 to the bottom of pag ed clause 116.4.5.	e 33 to after wha	t is currently (and	Correct the h this automati	•	mbers (it may be that moving	g the incorrectly	placed 116.3 will fix
Proposed Response PROPOSED ACCEF	Response Status W PT IN PRINCIPLE.			Proposed Respo PROPOSED		Response Status W IN PRINCIPLE.		
Resolve using the re	esponses to comments #23 and	24.		Resolve usin	ng the resp	onse to comment #24.		
C/ 116 SC 116.3	P 34	L 1	# 23	C/ 116 SC	116.4.4	P 34	L 35	# 25
Ran, Adee	Cisco			Ran, Adee		Cisco		
Comment Type E	Comment Status D		bucket	Comment Type	Е	Comment Status D		buck
Table 116-5a should interface subclause ?	l be placed in 116.1.3 after the 116.3.	existing tables, n	ot in the service	A "replace" in definitions.	nstruction	makes the reader wonder ho	w the new text o	changes the existing
Also, the table ruling	needs cleaning.			In fact, the n "change" rati		ds some sentences to the ex eplace".	isting text, so th	e instruction should be
SuggestedRemedy	, , , , , , , , , , , , , , , , , , ,				her than "r		isting text, so th	e instruction should be
SuggestedRemedy Move the table and fo	format it per comment.			"change" ratl SuggestedReme	her than "r <i>dy</i>		Ç i	e instruction should be
SuggestedRemedy	format it per comment. Response Status W			"change" rath SuggestedReme Change the i Proposed Respo	her than "r dy instruction nse	eplace". , and underline the new sente <i>Response Status</i> W	Ç i	e instruction should be
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF	format it per comment. Response Status W	rmatting. With e	ditorial license	"change" rath SuggestedReme Change the i Proposed Respo	her than "r dy instruction nse	eplace". , and underline the new sente	Ç i	e instruction should be
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t	format it per comment. <i>Response Status</i> W PT IN PRINCIPLE.	rmatting. With e	ditorial license # 24	"change" rati SuggestedReme Change the i Proposed Respo PROPOSED	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t	format it per comment. <i>Response Status</i> W PT IN PRINCIPLE. to 116.1.4 and cleanup table fo	Ū		"change" rati SuggestedReme Change the i Proposed Respo PROPOSED Change editi	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t C/ 116 SC 116.4 Ran, Adee Comment Type ER Incorrect subclause for	format it per comment. <i>Response Status</i> W PT IN PRINCIPLE. to 116.1.4 and cleanup table fo <i>P</i> 34 Cisco <i>Comment Status</i> D number: "Summary of 200 Giga	L 24	# 24 bucket	"change" rati SuggestedReme Change the i Proposed Respo PROPOSED Change editi	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t C/ 116 SC 116.4 Ran, Adee Comment Type ER Incorrect subclause r sublayers" is 116.2 ir	format it per comment. <i>Response Status</i> W PT IN PRINCIPLE. to 116.1.4 and cleanup table fo <i>P</i> 34 Cisco <i>Comment Status</i> D number: "Summary of 200 Giga	L 24	# 24 bucket	"change" rati SuggestedReme Change the i Proposed Respo PROPOSED Change editi	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t Cl 116 SC 116.4 Ran, Adee Comment Type ER Incorrect subclause r sublayers" is 116.2 in SuggestedRemedy	format it per comment. <i>Response Status</i> W PT IN PRINCIPLE. to 116.1.4 and cleanup table fo <i>P</i> 34 Cisco <i>Comment Status</i> D number: "Summary of 200 Giga	L 24	# 24 bucket abit Ethernet	"change" rati SuggestedReme Change the i Proposed Respo PROPOSED Change editi	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	
SuggestedRemedy Move the table and for Proposed Response PROPOSED ACCEF Move Table 116-5a t Cl 116 SC 116.4 Ran, Adee Comment Type ER Incorrect subclause in sublayers" is 116.2 in SuggestedRemedy Change the heading	format it per comment. Response Status W PT IN PRINCIPLE. to 116.1.4 and cleanup table fo P 34 Cisco Comment Status D number: "Summary of 200 Giga n the base standard.	L 24	# 24 bucket abit Ethernet	"change" rati SuggestedReme Change the i Proposed Respo PROPOSED Change editi	her than "r dy instruction onse ACCEPT ing instruct	eplace". , and underline the new sente <i>Response Status</i> W IN PRINCIPLE. tion to "change" from "replace	ences.	

C/ 116 SC 116.4.4

C/ 155

Laubach, Mark

Comment Type E

SC 155

C/ 116	SC 116.4.4	P 34	L 42	# 26
Ran, Adee		Cisco		
the gei	aragraph is now :	Comment Status D specific to 200GBASE-R ar \", "PCS" and "PMD" - unlik 400GBASE-ZR.		
"PMA"	should be chang	ged to "200GBASE-R and 4	00GBASE-R PM	As" or "these PMAs".
Similar	ly "PMD" should	be change to "200GBASE	R and 400GBAS	E-R PMDs".
400GE BASE-	ASE-R, the PMA	raph could be rephrased to A performs" - this way the w ncludes PCS and PMD). A	hole paragraph b	ecomes specific to the
Suggested	Remedy			
Prefera	ably use the seco	ond option:		
	e "The 200GBAS ASE-R, the PMA	E-R and 400GBASE-R PM A performs".	IAs perform" to "F	or 200GBASE-R and
400GE	BASE-R, the PMA	graph, change "The 400GB A performs" and delete the ' est of the paragraph.		
Proposed I	Response	Response Status W		
PROP	OSED ACCEPT	IN PRINCIPLE.		
"For 20 "The 4	00GBASE-R and 00GBASE-ZR PI	h change "The 200GBASE 400GBASE-R, the PMA pe MA performs" to "For 400G -ZR" qualifiers for PCS, PM	erforms". In the the BASE-ZR, the PM	nird paragraph change /A performs" and
C/ 116	SC 116.4.5	P 35	L 5	# 27
Ran, Adee		Cisco		
Comment [*] 400Gl		Comment Status D and its corresponding media	a" - plural.	bucket
<i>Suggested</i> Chang	<i>Remedy</i> e "is specified" to	o "are specified".		
Proposed I PROP	Response OSED ACCEPT.	Response Status W		

Ū	<i>gestedR</i> Insert "li page.	•	auses and cor	respondir	ng ann	exes as follows:" as	the first line of	this
Proj		esponse ISED ACCE	Respons PT IN PRINCI		w			
		following ed 156 as follow		n before	the 15	5 clause title: "Inser	t new Clause 1	55 and
CI 1	155	SC 155.1		P 3	9	L 8	# 30	
Rar	n, Adee			Cisco	0			-
	n <i>ment T</i> y "The ter			<i>nt Status</i> when refe		o the 400GBASE-Z	R PHY, which u	<i>bucket</i> uses"
	Too wor	dy.						
•	<i>gestedR</i> Change	•	GBASE-ZR P	HY uses"				
		esponse SED ACCE	Respons PT.	e Status	w			
CI 1	155	SC 155.2		P 4	1	L 41	# 158	
D'A	mbrosia	, John		Futur	ewei, I	U.S. Subsidiary of F	luawei	
Con	nment Ty	ype E	Comme	nt Status	D			bucket
						ts briefness - The I ich is defined in Cla		erface
Sug	gestedR	Remedy						
			of the PCS ma efined in Claus		ct to th	e Reconciliation Su	blayer through t	the
Prop	bosed R	esponse	Respons	e Status	w			
	PROPO	SED ACCE	PT IN PRINCI	PLE.				
	defined Sublaye	in Clause 11	17" to "The ser service interfa	vice inter	face of	ndependent Interfac f the PCS connects b/s Media Independ	to Reconciliatio	
eneral			1.76.34.4.4.		CI ·	155	Page 6 c	of 43

P 39

Ciena

Comment Status D

Other projects have indicated the start of new material.

L 1

2

bucket

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 155	Page 6 of 43
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 155.2	5/5/2023 10:44:34 AM
SORT ORDER: Clause, Subclause, page, line		

C/ 155 SC 155.2.1	P 41	L 34	# 235	C/ 155 SC 155.2.2	P 43	L 1	# 159
Brown, Matt	Huawei			D'Ambrosia, John	Futurewei, L	J.S. Subsidiary of	Huawei
Comment Type E	Comment Status D		bucket	Comment Type ER	Comment Status D		buck
It is specifically the 400 (Gb/s MII.			There is inconsistent usa 400GBASE-ZR PMA and	ge of the terms 400GBAS PMA thoughout this subo		PCS, as well as
SuggestedRemedy	"The PCS service interface	is the 400 Ch/s	Madia Indonandant	SuggestedRemedy			
Interface (400GMII) (see		is the 400 Gb/s		Review all of Clause 155		ent approach to u	se of 400GBASE-ZR
Proposed Response	Response Status W			PCS / PCS and 400GBA	SE-ZR PMA / PMA.		
PROPOSED ACCEPT I	N PRINCIPLE.				Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
D I I I				PROPOSED ACCEPT IN	N PRINCIPLE.		
Resolve using the respo	nse to comment #158.			Change "PCS" to "400GE	BASE-ZR PCS" and chan	ge "PMA" to "400	GBASE-ZR PMA"
C/ 155 SC 155.2.2	P 42	L 12	# 166	throughout clause 155. V		0	
Huber, Thomas	Nokia			C/ 155 SC 155.2.2	P 43	L 5	# 32
Comment Type E	Comment Status D		bucket	Ran. Adee	Cisco		
In Figure 155-3, the bloc	k labeled "Encode" should	probably say "64	B/66B Encode"	Comment Type E	Comment Status D		buck
SuggestedRemedy				What does "n" stand for a	and what values does it ta	ke?	
Add "64B/66B" to the lab	oel.			SuggestedRemedy			
Proposed Response	Response Status W			,	or change to "transmit con	trol signals (TXC) and receive control
PROPOSED ACCEPT.				signals	Ũ	0 (,
C/ 155 SC 155.2.2	P 42	L 23	# 236	(RXC)".			
Brown, Matt	Huawei	2 20	11 230	A reference to 117.3 or to	o 81.3 may be appropriate	e here.	
Comment Type E	Comment Status D		bucket	Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
51	oth transmit and receive di	rection.	Bucker	PROPOSED ACCEPT IN	N PRINCIPLE.		
SuggestedRemedy Change "OH & AM inser	tion" to "OH/AM insertion".			Change "transmit control to "transmit control signa to 81.3.			
Proposed Response	Response Status W						

C/ 155	SC 155.2.2	P 43	L 6	# 168	C/ 155	SC 155.2	2	P 43	L 7	# 33
Huber, Th		Nokia	20	<i>#</i> 100	Ran, Adee		-	Cisco	21	# [33
Comment The s	<i>t Type</i> E sentence describ	Comment Status D ing communication from PCS what the PMA does since this			Comment	<i>Type E</i> 00GBASE-ZF		nt Status D 128-bit soft dec	ision forward erro	bucket or correction (SD-FEC)
Chan PCS 400G symb to "Whe uses	provides 128-bit BASE-ZR PCS t ools." en communicatin	nunicating with the PMA in the soft decision forward error cor to the PMA, which the PMA en g with the PMA in the transmit rying 128-bit soft decision forv	rection (SD-FE) codes into two direction, the 4	C) codewords from the streams of 16QAM 00GBASE-ZR PCS	termin decod Also, t specifi The co	nology; it is a l led with soft ir there are othe ic code is inap ode should be	Hamming code iput. r soft-decision opropriate.	(as stated on Li decoders in 802		(and ideally should) be term just for this
PRO		Response Status W T IN PRINCIPLE. ponse to comment #33.			Hamm If this codew	ably replace thing code FEC isn't done, Chyords" to "cod	C" or "EH-FEC" ange "128-bit s	across the docusoft decision forvestematic (128, 1	ward error correc	uch as "Extended tion (SD-FEC) ded Hamming code
					Proposed	Response	Response	e Status W		

PROPOSED ACCEPT IN PRINCIPLE.

Keep "SD-FEC" and change "When communicating with the PMA in the transmit direction, the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC) codewords from the 400GBASE-ZR PCS to the PMA, which the PMA encodes into two streams of 16QAM symbols." to "When communicating with the PMA in the transmit direction, the 400GBASE-ZR PCS provides codewords (see 155.3.2.1) of a systematic (128, 119) double-extended Hamming code (denoted "SD-FEC" within this clause) from the 400GBASE-ZR PCS to the 400GBASE-ZR PMA".

CI 155 SC 155.2.2	P 43	L 7	# 237	C/ 155 S	SC 155.2.2	P 43	L 17	# 258
Brown, Matt	Huawei			Law, David		Hewlett Pack	ard Enterprise	
Comment Type E	Comment Status D		bucket	Comment Type	e ER	Comment Status D		bucke
Redundant words. It is q	uite clear that if the PCS pro	ovides it, it is fro	om the PCS.			-ZR frame' (e.g., page 43, lir		
SuggestedRemedy						terchangeably in subclause addition, the term 'frame' is ι		
(SD-FEC) codewords fro	E-ZR PCS provides 128-bit s om the 400GBASE-ZR PCS PCS provides 128-bit soft de PMA"	to the PMA"		Coding Su subclause used in ref	blayer (PCS 155.3 'Phys erence to th)' in reference to figure 155– cal Medium Attachment (PM e figure 155–11 'Multi-frame	4 '400GBASE-ZR IA) sublayer, type	frame structure' yet in 400GBASE-ZR' it is
,	Response Status W			SuggestedRer	-			
PROPOSED ACCEPT II	,				eck Sequend	et format' defines 'frame' as e, and this is what 'frame' ge		
Resolve using the respo	onse to comment #33				0			
C/ 155 SC 155.2.2	P 43	L 13	# 238			nd '400GBASE-ZR frame', w ו '400GBASE-ZR PCS frame		ence to figure 155–4,
Brown, Matt	Huawei			[2] The ter	m [`] 'frame', w	nen used in reference to figu		d be replaced with
Comment Type E	Comment Status D		bucket			ame' in subclause 155.2.		
			buchet	LSI I DE TER	m 'multi_tran	e' should be replaced with 'a	100GBASE-ZR P	MA multi-trame' in
• •	ontext is deprecated per styl	le guide.	bucket	[3] The ter subclause		ie' should be replaced with '4	400GBASE-ZR P	MA multi-frame' in
The word "can" in this co	ontext is deprecated per styl	le guide.	bucker		155.2.	Response Status W	100GBASE-ZR P	MA multi-frame' in
The word "can" in this co SuggestedRemedy Change "The PCS transi	mit function can operate in i	normal mode or	test-pattern mode."	subclause Proposed Res	155.2.	Response Status W	400GBASE-ZR P	MA multi-frame' in
The word "can" in this co SuggestedRemedy Change "The PCS transi To "The PCS transmit fu	mit function can operate in i inction operates in normal n	normal mode or	test-pattern mode."	subclause Proposed Res PROPOSI	155.2. bonse ED ACCEPT	Response Status W		
The word "can" in this co SuggestedRemedy Change "The PCS trans To "The PCS transmit fu Proposed Response	mit function can operate in i	normal mode or	test-pattern mode."	Subclause Proposed Res PROPOSI Cl 155	155.2. ponse	Response Status W	L 18	MA multi-frame' in # 259
The word "can" in this co SuggestedRemedy Change "The PCS transi To "The PCS transmit fu	mit function can operate in i inction operates in normal n	normal mode or	test-pattern mode."	subclause Proposed Res PROPOSI Cl 155 Law, David	155.2. bonse ED ACCEPT CC 155.2.2	Response Status W P 43 Hewlett Pack		# 259
The word "can" in this co SuggestedRemedy Change "The PCS trans To "The PCS transmit fu Proposed Response PROPOSED ACCEPT.	mit function can operate in i inction operates in normal n	normal mode or	test-pattern mode."	Subclause Proposed Res PROPOSI CI 155 Law, David Comment Type	155.2. ponse ED ACCEPT C 155.2.2 T	Response Status W P 43 Hewlett Pack Comment Status D	L 18 kard Enterprise	# 259
The word "can" in this co SuggestedRemedy Change "The PCS trans To "The PCS transmit fu Proposed Response PROPOSED ACCEPT.	mit function can operate in u unction operates in normal n Response Status W	normal mode or node or test-path <i>L</i> 17	test-pattern mode." tern mode.	Subclause Proposed Res PROPOSI Cl 155 S Law, David Comment Type Suggest th	155.2. bonse ED ACCEPT C 155.2.2 T hat a ± ppm v	Response Status W P 43 Hewlett Pack	L 18 kard Enterprise	
The word "can" in this co SuggestedRemedy Change "The PCS transmit fu To "The PCS transmit fu Proposed Response PROPOSED ACCEPT. C/ 155 SC 155.2.2	mit function can operate in n unction operates in normal n <i>Response Status</i> W <i>P</i> 43	normal mode or node or test-path <i>L</i> 17	test-pattern mode." tern mode.	Subclause Proposed Res PROPOSE Cl 155 S Law, David Comment Type Suggest th SuggestedRer	155.2. boonse ED ACCEPT C 155.2.2 T hat a ± ppm v nedy	Response Status W P 43 Hewlett Pack Comment Status D ralue should be applied to a	<i>L</i> 18 aard Enterprise rate.	# 259 bucke
The word "can" in this co SuggestedRemedy Change "The PCS transmit fu To "The PCS transmit fu Proposed Response PROPOSED ACCEPT. C/ 155 SC 155.2.2 Marris, Arthur Comment Type TR	mit function can operate in unction operates in normal n Response Status W P 43 Cadence Des Comment Status D 00GBASE-ZR frame" and "G	normal mode or node or test-path <i>L</i> 17 sign Systems	test-pattern mode." tern mode. # 7 bucket	Subclause Proposed Res PROPOSI Cl 155 S Law, David Comment Type Suggest th SuggestedRer Suggest th ppm timing 401.54285	155.2. boonse ED ACCEPT C 155.2.2 \mathbf{T} hat a \pm ppm v nedy hat the text '. g domain.' sh 2 Gb/s \pm 100	Response Status W P 43 Hewlett Pack Comment Status D	<i>L</i> 18 ard Enterprise rate. blocks stream be with the 257-bit b	# 259 bucke ing mapped into a ±20 lock stream in the
The word "can" in this co SuggestedRemedy Change "The PCS transmit fu Proposed Response PROPOSED ACCEPT. Cl 155 SC 155.2.2 Marris, Arthur Comment Type TR This is the first place "40 to include a reference to	mit function can operate in unction operates in normal n Response Status W P 43 Cadence Des Comment Status D 00GBASE-ZR frame" and "G	normal mode or node or test-path <i>L</i> 17 sign Systems	test-pattern mode." tern mode. # 7 bucket	Subclause Proposed Res PROPOSE Cl 155 S Law, David Comment Type Suggest th SuggestedRer Suggest th ppm timing 401.54285 ppm timing	155.2. boonse ED ACCEPT C 155.2.2 T hat a ± ppm v hedy hat the text '. g domain.' sh 2 Gb/s ± 100 g domain.'.	Response Status W P 43 Hewlett Pack Comment Status D ralue should be applied to a . with the ±100 ppm 257-bit yould be changed to read ') ppm timing domain being m	<i>L</i> 18 ard Enterprise rate. blocks stream be with the 257-bit b	# 259 bucke ing mapped into a ±20 lock stream in the
The word "can" in this co SuggestedRemedy Change "The PCS transmit fu Proposed Response PROPOSED ACCEPT. Cl 155 SC 155.2.2 Marris, Arthur Comment Type TR This is the first place "40 to include a reference to SuggestedRemedy Change "The transcoded generic mapping proced	mit function can operate in unction operates in normal n Response Status W P 43 Cadence Des Comment Status D 00GBASE-ZR frame" and "G	normal mode or node or test-path <i>L</i> 17 sign Systems GMP" are mentic nto a 400GBASE	test-pattern mode." tern mode. # [7	Subclause Proposed Res PROPOSE Cl 155 S Law, David Comment Type Suggest th SuggestedRer Suggest th ppm timing 401.54289 ppm timing Proposed Res	155.2. boonse ED ACCEPT C 155.2.2 T hat a ± ppm v hedy hat the text '. g domain.' sh 2 Gb/s ± 100 g domain.'.	Response Status W P 43 Hewlett Pack Comment Status D ralue should be applied to a with the ±100 ppm 257-bit hould be changed to read ' ppm timing domain being m Response Status W	<i>L</i> 18 ard Enterprise rate. blocks stream be with the 257-bit b	# 259 bucke ing mapped into a ±20 lock stream in the

C/ 155	SC 155.2.2	P 43	L 18	# 170	C/ 155	SC 155.2.2	2
Huber, The	omas	Nokia			Maniloff,	Eric	
Comment The ph Suggested	nrase '257-bit bloc	Comment Status D cks stream' is awkward; 'strea	am of 257-bit blo	bucke bocks' would be better.	The t (SC-F	ext currently rea FEC) code and	
Chang	e "with the ±10	0 ppm 257-bit blocks stream locks being mapped"	being mapped.	" to "with the ±100		parentheses. edRemedy	
Proposed I PROP	Response OSED ACCEPT I	Response Status W IN PRINCIPLE.			(SĊ-F	ace "an outer st FEC) code and FEC) code and	an inner Hamm
	0 1	onse to comment #259			,	l Response POSED ACCEF	<i>Response</i> PT IN PRINCIP
C/ 155 Ran. Adee	SC 155.2.2	P 43 Cisco	L 21	# 36	Reso	lve using the re	sponses to cor
Comment	Туре Е	Comment Status D arentheses to match SC-FEC).	bucke	t C/ 155 Ran, Ade	SC 155.2.2	2
``	erstand that the pa t more readable).	arentheses in SC-FEC are d	ue to the acrony	m - but it would make	<i>Comment</i> "The	<i>t Type</i> ER 128-symbol SD	<i>Commen</i> FEC codewor
Suggested Per co	<i>Remedy</i> mment.					paragraphs abo ction (SD-FEC)	
Proposed I	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			Lass	ume the symbo	Is are bits and
PROP	OSED ACCEPT I	IN PRINCIPLE.				dRemedy	
This is	the first use of S	C-FEC abbreviation which is	why it is in ().	The SD-FEC		ige to consisten	it language, pre
		usly used in line 7 so there is code SD-FEC" to "and a SD		eat it here. Change	,	Response	Response

ent Status D bucket staircase FEC nming code SD-FEC", SC-FEC and SD_FEC should both ming code SD-FEC" with "an outer staircase FEC ming (SD-FEC) code. se Status W IPLE. omments #36. P 43 L 22 # 37 Cisco ent Status D bucket ord blocks are sent to the PMA" eferred to as "128-bit soft decision forward error - very different language referring to the same thing. d that codewords and codeword blocks are the same. referably bits and codewords. se Status W

P 43

Ciena

L 21

243

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the responses to comments #6 and #171.

C/ 155 SC 155.2.2	P 43	L 22	# 6	C/ 155	SC 155.2.2	P 4	3 <i>L</i> 35	# 39
Marris, Arthur	Cadence Des	ign Systems		Ran, Adee		Cisco)	
	Comment Status D ? of a comment against draft 2 n (hence TR classification).	.0 that was not c	<i>bucket</i> onsidered during draft	to the I	the receive fun Hamming (128,		de, the SD-FEC codev r. Next the PCS de-int	<i>bucket</i> vord blocks are provided erleaves the corrected
SuggestedRemedy Consider changing "12 line 37.	3-symbol" to "128 bit symbol"	'. Similar issue w	ith "119-symbol" on			e for the receive func		. 10
Proposed Response	Response Status W			Are SI	J-FEC codewor	a blocks allierent fro	m "SD-FEC codeword	S ?
PROPOSED ACCEPT				Suggested	Remedy			
Change "128-symbol" t	o "128 bit" twice, and "119-sy	/mbol" to "119-bi		codewo	ords from the in	coming data stream o		es error-corrected erface, which are then
C/ 155 SC 155.2.2	P 43	L 22	# 171	•	0	convolutional de-inter		
luber, Thomas	Nokia			Proposed F	•	Response Status	w	
omment Type T	Comment Status D		bucket	FROF	JSED ACCEPT	IN FRINCIFLE.		
SuggestedRemedy Change "The 128-symb SD-FEC codewords are Proposed Response PROPOSED ACCEPT.	Response Status 🛛 🛛 🛛 🛛 🛛 🖤	are sent to the F	PMA" to "The 128-bit	FEC de PMA se convolu	ecoder generate ervice interface	es error-corrected cod which are then pass	ewords from the incor	ceive direction, the SD- ning data stream on the onal de-interleaver. The ewords to the
C/ 155 SC 155.2.2	P 43	L 32	# 172	C/ 155	SC 155.2.2	P 4		# 40
luber, Thomas	Nokia			Ran, Adee		Cisco		
Comment Type T	Comment Status D		bucket	Comment 7	51	Comment Status	-	bucket
• •	n-bit digitized DP-16QAM syn	nbols from the PI	MA, and aligning to	There	verse transcou	er converts 257-bit bl	JCKS 10 04D/00D	
128-bit SD-FEC codew SuggestedRemedy	ords.			64B/66 155.2.3		ng scheme; the block	s are 66-bit blocks (as	in the first sentence of
PMA_IS_UITDATA.ind codeword blocks" to	nchronization process accept cation primitive and forms a	stream of 128-sy	mbol SD-FEC	Suggested			ding scheme, so is fin	e.
	ation process accepts a strea S_UNITDATA.indication prim			Proposed F PROP	Response OSED ACCEPT	Response Status	w	
Proposed Response PROPOSED ACCEPT.	Response Status W							
	d ER/editorial required GR/ patched A/accepted R/reject bclause, page, line				U/unsatisfied	Z/withdrawn	C/ 155 SC 155.2.2	Page 11 of 43 5/5/2023 10:44:34

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155 SC 155.2.3	P 43	L 46	# 41	C/ 155	SC 155.2.4	P 44	L 1	# 43
Ran, Adee	Cisco			Ran, Adee		Cisco		
comment Type ER	Comment Status D		bucket	Comment Typ	be E	Comment Status D		bucke
placed below 155.2.2 i	2		-	in 155.2.3		'64B/66B code" but the mapp entence in 155.2.4 points to 1		
	an be renamed "PCS overvie	ew, because tha	ts what it is.	This subc	lause descril	pes the additional 257-bit blo	cks and GMP. so	o its current title
uggestedRemedy						opropriate. The title of the pre		
Preferably change the	hierarchy per the comment.			blocks", f	its better.			
roposed Response PROPOSED ACCEPT	Response Status W			Also "codestream" is not defined.				
THE COLD ACCEL				SuggestedRe	medy			
Change the name of 1	55.2.2 to: "PCS overview"					ence, "The 64B/66B codestre		
/ 155 SC 155.2.3	P 43	L 49	# 42			apped to a 400GBASE-ZR fr nission", into 155.2.3, chang		
Ran, Adee	Cisco			Delete th	o romaindar /	of this subclause.		
omment Type E	Comment Status D		bucket					
"generate, manipulate	and interpret blocks" is a sing	gle list.		Proposed Res		Response Status W		
uggestedRemedy				PROPOS	ED ACCEPT	IN PRINCIPLE.		
,	nanipulate, and interpret bloc	:ks"		Implemer	nt proposed o	hange with editorial license		
roposed Response	Response Status W			C/ 155	SC 155.2.4	P 44	L 5	# <u>1</u> 01
PROPOSED ACCEPT				Bruckman, Le	eon	Huawei		
				Comment Tv	be E	Comment Status D		bucke
						s already provided in this cor	ntext in the previ	
				SuggestedRe	medv			
						64B/66B code are provided i	n 119.2.3."	
				Proposed Res		Response Status W		
				•	,	IN PRINCIPLE.		

					•	0	•			
C/ 155	SC 155.2.5.3	P 44	L 29	# 44	C/ 155	SC '	155.2.5.3	P 44	L 51	# 47
Ran, Adee	e	Cisco			Ran, Ade	е		Cisco		
	G.709 (06/2020	<i>Comment Status</i> X " ommendation G.709" entry	in the normative r				ER) bits of th	<i>Comment Status</i> D e frame contain alignment	markers (AM)"	buck
		eason to include the date he me name as in 1.3.	re?			e per-lar		ent marker, so the abbrevia ent markers defined in 119		
Suggested	Remedy				Lloing	tormino	logy from	400GBASE-R creates unr	and a second second unit	on It would be simpler
	ge to "ITU-T Reco n to lock a specifi	mmendation G.709", prefer c version.	ably without the d	ate, unless there is a				bits are identical to am_n		
Proposed I ACCE	Response PT IN PRINCIPL	Response Status W E.			field i		me. This w	name identical to other do vay AM becomes a notatic		
Chang	ge: "ITU-T G.709	(06/2020) Annex D" To: "ITU	J-T Recommenda	ation G.709"				M and PAD are repeated		155.2.5.4.2, in
C/ 155	SC 155.2.5.3	P 44	L 38	# 46				be easier for readers to h	ave it only once.	
Ran, Adee	e	Cisco			Suggeste					
Comment	Туре Е	Comment Status D		buc		ge list ite		e frame are the AM field, o	dofined in 155 2 5	1 1"
0		n Figure 155-4 are not aligne			Chan "The	ge list ite	em 2 to	e frame are the pad field,		
hand.		ect sizes and positions man Id be divided such that the s			f Proposed	,	se ACCEPT.	Response Status W		
Also in	n Figure 155-5.									
Suggested Per co	<i>Remedy</i> omment.									
Proposed I PROP	Response OSED ACCEPT	Response Status WIIN PRINCIPLE.								
	e Figures 155-4 a al license.	and 155-4 to improve alignm	ent of the objects	in the figures. With	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: Clause, Subclause, page, line

C/ 155 SC 155.2.5.3 Page 13 of 43 5/5/2023 10:44:34 AM

	SC 155.2.5.3	P 45	L 8	# 174
Huber, Th		Nokia		
frame. subse	is written awkwardl The details of how	Comment Status D y. The intent is to define t it is filled are covered in t 1" implies that the first bit able 155-1 below.	he next paragra	oh and other
Suggested	Remedy			
) with: The remaining bits I areat hat consists of 10,		
Proposed PROP	Response F OSED ACCEPT IN	Response Status W PRINCIPLE.		
mappe frame remain	ed into the payload a The payload size o	-ZR PCS payload of the s area of 400GBASE-ZR fra f each 400GBASE-ZR fra 40 of the first row to end it blocks"	ames from bit 51 ime is 10 220 x 2	41 to the end of the 257 bits." to: "The
C/ 155	SC 155.2.5.3	P 45	L 8	# 48
Ran, Adee	e	Cisco		
mappe	has "The 400GBAS ed"	Comment Status D SE-ZR PCS payload of the		
Item 5 mappe	s quite confusing. It v			am of 257-bit blocks is
Item 5 mappe This is senter In the	f has "The 400GBAS ed" s quite confusing. It v nce. following paragraph	E-ZR PCS payload of the	ting terminology 257-bits block er	am of 257-bit blocks is is used in this ncoded stream
Item 5 mappe This is senter In the	following paragraph ced according to 155	E-ZR PCS payload of the would help readers if exis	ting terminology 257-bits block er	am of 257-bit blocks is is used in this ncoded stream
Item 5 mappe This is senter In the produc Suggested In iten	i has "The 400GBAS ed" s quite confusing. It was note. following paragraph ced according to 155 <i>IRemedy</i> n 5, change "The 400	E-ZR PCS payload of the would help readers if exis	ting terminology 257-bits block er tx_xcoded<256: d of the serialize	am of 257-bit blocks is is used in this ncoded stream 0>.
Item 5 mappe This is senter In the produc Suggested In item blocks	b has "The 400GBAS ed" s quite confusing. It was not according to 155 <i>Remedy</i> n 5, change "The 400 " to "The stream of in paragraph following n produced accordin	E-ZR PCS payload of the would help readers if exis , "the logically serialized 2 5.2.5.2" seems to refer to 0GBASE-ZR PCS payloa	ting terminology 257-bits block er tx_xcoded<256: d of the serialize ". cally serialized 2	am of 257-bit blocks is is used in this neoded stream 0>. ed stream of 257-bit 257-bits block encoded
Item 5 mapped This is senter In the product Suggested In item blocks In the stream blocks	is has "The 400GBAS ed" s quite confusing. It was note. following paragraph ced according to 158 <i>IRemedy</i> n 5, change "The 400 " to "The stream of the paragraph following n produced accordin s)".	E-ZR PCS payload of the would help readers if exis , "the logically serialized 2 5.2.5.2" seems to refer to OGBASE-ZR PCS payloa tx_xcoded<256:0> blocks the list, change "(the logi g to 155.2.5.2)" to "(from Response Status W	ting terminology 257-bits block er tx_xcoded<256: d of the serialize ". cally serialized 2	am of 257-bit blocks is is used in this neoded stream 0>. ed stream of 257-bit 257-bits block encoded
Item 5 mapped This is senter In the product Suggested In item blocks In the strean blocks Proposed PROP	has "The 400GBAS ed" s quite confusing. It was following paragraph ced according to 155 <i>Remedy</i> n 5, change "The 400 " to "The stream of the paragraph following n produced accordin b)".	SE-ZR PCS payload of the would help readers if exis , "the logically serialized 2 5.2.5.2" seems to refer to OGBASE-ZR PCS payloa tx_xcoded<256:0> blocks the list, change "(the logi g to 155.2.5.2)" to "(from Response Status W PRINCIPLE.	ting terminology 257-bits block er tx_xcoded<256: d of the serialize ". cally serialized 2	am of 257-bit blocks is is used in this neoded stream 0>. ed stream of 257-bit 257-bits block encoded

a				
C/ 155	SC 155.2.5	5.3 <i>P</i> 45	L 12	# 49
Ran, Adee		Cisco		
Comment T 4 x 257		Comment Status D		bucke
x is use	d as a multip	lication sign in several other	places.	
SuggestedF	Remedy			
Change	x to a prope	r multiplication sign when tha	t is the intent, acro	ess the draft.
Proposed R PROPC		Response Status W PT IN PRINCIPLE.		
Implem	ent suggeste	d remedy with editorial licens	e	
	ent suggeste SC 155.2.5	•	e L 13	# 50
Cl 155 Ran, Adee	00	•		# 50
Cl 155 Ran, Adee Comment T "is eithe	SC 155.2.5 ype E er filled with d	5.3 <i>P</i> 45	L 13	# 50 bucke
Cl 155 Ran, Adee Comment T "is eithe The "eit SuggestedF	SC 155.2.5 SC 155.2.5 er filled with d her" clause s Remedy	5.3 P 45 Cisco Comment Status D ata bits or stuff bits"	L 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: Clause, Subclause, page, line

C/ 155 SC 155.2.5.3 Page 14 of 43 5/5/2023 10:44:34 AM

C/ 155 SC	155.2.5.3	P 45	L 16	# 51	C/ 155 SC 155	5.2.5.3	P 45	L 17	# 239
Ran, Adee		Cisco			Brown, Matt		Huawei		
Comment Type	ER	Comment Status D		bucket	Comment Type E	С	omment Status D		bucket
"logically ser	rial stream" o	ita is a logically serial strean does not make sense, and tl		rial stream) is not	independent." Do	, bes this me	ocks for the PCS and the an it is not permitted for ce? A 20 ppm reference	the PCS clock	and frame clock to be
feasible in th	e foreseeab	le future.			SuggestedRemedy				
frame multi-f transcoder o	frame mentio output, becau	data is that? is it the transco oned in the previous paragra use the alternatives have hig	aph, or the full fra		or	ne PCS and	d the 400GBASE-ZR fra	-	
SuggestedReme					dependent."				
		coded data is a logically seri e transcoder output is".	al stream at a ra	ite of to "The nominal	Proposed Response	Re	esponse Status 🛛 🛛 🛛 🛛 🛛 🗤		
Proposed Respo		Response Status W			PROPOSED AC	CEPT IN P	RINCIPLE.		
PROPOSED	ACCEPT II	N PRINCIPLE.					PCS and the 400GBAS 400GBASE-ZR frame m		e independent." to: "The lent."
		coded data is a logically ser ed for the 64B/66B to 256B/			C/ 155 SC 155	5.2.5.3	P 45	L 23	# 240
155 SC	155.2.5.3	P 45	L 17	# 53	Brown, Matt		Huawei		
Ran. Adee		Cisco			Comment Type E	-	omment Status D		bucket
Comment Type	E	Comment Status D		bucket			g sentence is not clear. ates and tolerances of tl		
" I he clocks i	for the PCS	and the 400GBASE-ZR frar	ne are independ	ent"	SuggestedRemedy				
		4	ntence in the par	agraph, to clarify	Perhaps "The va clock rate within			sible outcomes	for any PCS and frame
		ter be placed as the first sel							
This sentend	about.	ter de placed as the first sel			Proposed Response	Re	esponse Status 🛛 🛛 🛛 🛛 🛛 🖤		
This sentend what's it all a SuggestedReme	about. edy	ce to the beginning of the pa	aragraph.		Proposed Response PROPOSED AC		esponse Status W		

C/ 155	SC 155.2.5.4	P 45	L 42	# 176
Huber, Th	omas	Nokia		
depen	troductory sentend ds on the GMP ma as no dependence	Comment Status D be implies that filling in the apping process. That is tru on the GMP process. Als	e for the GMP-re	lated OH, but the rest
Suggested	Remedy			
	ce the existing text of the 400GBASE-	with this: This clause spe ZR frame.	cifies the alignm	ent markers and pad
•	Response POSED ACCEPT.	Response Status W		
C/ 155	SC 155.2.5.4.1	P 46	L 1	# <u>1</u> 77
Huber, Th	omas	Nokia		
	•••	Comment Status D the AM field is and how the	ne variable am_m	<i>bucket</i> happed<1919:0> is
Suggested	dRemedv			
Delete frame senter am_m of pag	e the first sentence in the first row."); nce of the paragra apped<0> to am_ le 45), add a sente	of the paragraph ("The AN the location of the field is c oh ("The transmission orde mapped<1919>.") At the é nce to clarify the order of t n_mapped<0:1919> are m	lear from figure 1 or of am_mapped and of the preced he bits of am_ma	55-4. Delete the last is from ing paragraph (bottom apped within the AM
Proposed	Response	Response Status W		
PROP	OSED ACCEPT I	N PRINCIPLE.		

Change: "The resulting 1920-bit value is inserted in the AM field of each 400GBASE-ZR frame." to: "The resulting am_mapped<0:1919> is mapped to bits 0 to 1919 of the AM field".Delete the first and last sentences of the last paragragh in 155.2.5.4.1

C/ 155	SC 155.2.5.5	P 46	L 10	# 178
Huber, Tho	mas	Nokia		
Comment T	ype TR	Comment Status	D	bucket

The title and introductory sentence of the clause are misleading - the contents are really about the OH elements (except for 155.2.5.5.4, which deals with mapping into the field labelled OH in figure 155-4)

SuggestedRemedy

Change the title from "OH fields" to "400GBASE-ZR overhead" Replace the introductory sentence with this text: The 400GBASE-ZR overhead is carried in a 40-octet frame structure that uses a 4-frame multiframe, as shown in Figure 155-5 and described in 155.2.5.5.1 through 155.2.5.5.3. The mapping of this structure into the OH field in Figure 155-4 is described in 155.2.5.5.4. The overhead is intended to be consistent with the description in subclause 8.8 of OIF-400ZR-02.0. Replace the caption of Figure 155-5 with this: Contents of 400GBASE-ZR OH field

Proposed Response	Response Status	
PROPOSED ACCEPT	IN PRINCIPLE.	

Change the title of 155.2.5.5 from "OH fields" to "400GBASE-ZR overhead" Change the text of 155.2.5.5 to "The 400GBASE-ZR overhead is carried in a 40-octet frame structure that uses a 4-frame multiframe, as shown in Figure 155-5 and described in 155.2.5.5.1 through 155.2.5.5.3. The mapping of this structure into the OH fields in Figure 155-4 is described in 155.2.5.5.4. The overhead is intended to be consistent with the description in subclause 8.8 of OIF-400ZR-02.0."Change the title of Figure 155-5 to "Contents of 400GBASE-ZR OH fields". With editorial license.

Cl 155	SC 155.2.5.5	5 P 4	6	L 28	# 209			
Slavick, J	eff	Broa	dcom					
Comment	Type E	Comment Status	D		bucket			
	There are a pair of dark lines in the middle of the blocks representing the different bits to field mapping.							
Suggested	dRemedy							
Fix the	e strange looking	dark lines.						
Proposed	Response	Response Status	w					
PROF	POSED ACCEPT	IN PRINCIPLE.						

Resolve using the response to comment #3.

C/ 155	SC 155.2.5.5	P 46	L 28	# 3	C/ 155 S	SC 155.2.5.	5.2 P	46	L 45	# 56
Laubach, N	Mark	Ciena			Ran, Adee		Cis	со		
Comment		Comment Status D		bucket	Comment Typ		Comment Statu			bucke
text is technic		at seems to be change bars i	n the figure - car	nnot read all letters of			a remote 400GBA			
Suggested	2				In the prev fault if it is		aph RPF is defined	as "remot	e PHY fault". An	d it only indicates a
all? If		clause 155 on is "new" mater on, they can't obscure technic			(RPF, not	RFP; and fa	ult, not defect)			
Proposed I	0	Response Status W			SuggestedRer	nedy				
	OSED ACCEPT	•			Change to	The RPF b	oit is used to signal	a remote 4	400GBASE-ZR f	ault".
FROF	USED ACCEPT	IN FRINCIFLE.			Proposed Res	ponse	Response Status	s W		
		utomatically added by Frame e bars will be removed in D2.		t is changed as it was	PROPOSI	ED ACCEPT	·			
C/ 155	SC 155.2.5.5	.1 <i>P</i> 46	L 37	# 102	C/ 155 S	SC 155.2.5.	5.3 P	47	L 10	# 58
		Huawei	L 31	# 102	Ran, Adee		Cis	со		
Bruckman,	,			huslat	Comment Typ	e E	Comment Statu	s D		bucke
Comment T as def	<i>Type</i> E fined by" replabo	Comment Status D e "by" with "in"		bucket	<i>.</i>	title as a se body of this	parator. s subclause, as a se	eparator be	etween bit labels	, several times.
Suggested	Remedy				SuggestedRer	nedy				
Replac	e: "as defined b	y" with: "as defined in"			Change th	e hyphens t	o en dashes.			
Proposed I	Response	Response Status W			Proposed Res	ponse	Response Status	s W		
PROP	OSED ACCEPT				PROPOSI	ED ACCEPT	IN PRINCIPLE.			
C/ 155	SC 155.2.5.5	.1 <i>P</i> 46	L 38	# 179	Implemen	t with editori	al license			
Huber, The	omas	Nokia			C/ 155 S	SC 155.2.5.	5.3 P	47	L 12	# 180
Comment	51	Comment Status D		bucket	Huber, Thoma	as	Nol	kia		
		MFAS as being in "each 40-o			Comment Typ		Comment Statu			bucke
descrit	oed as a 160-oct	ead frame is 40 octets; the 4 et block. The reference to G F 400ZR/400GBASE-ZR app	.709.1 clause 9.	2.1 is not particulary	The descr	iption of the	JC information as " et block" is not corre	spread ac		third, and fourth
	uses it.	· · · · · · · · · · · · · · · · · · ·		,	SuggestedRer					
Suggested	Remedy						with: The justification	on control	information is ca	rried in octets 4 and 5
		ntence of the clause to say: "	It is an auto-wra	pping 8-bit counter that			nd fourth frames of			
		400GBASE-ZR frame."			Proposed Res	ponse	Response Status	s W		
Proposed I		Response Status W			PROPOSI	ED ACCEPT	Γ.			
PROP	OSED ACCEPT									

TYPE: TR/technical required ER/editorial required GR/gene	eral required T/technical E/editorial G/general	Ci
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	S
SORT ORDER: Clause, Subclause, page, line		

Cl	155
SC	155.2.5.5.3

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CI 155 SC 155	2.5.5.3	P 47	L 13	# 59	C/ 155	SC 155.2.5.5	4 P 47	L 30	# 103
Ran, Adee		Cisco			Bruckman	, Leon	Huawei		
Comment Type EF "OIF-400ZR-02.0"	Comment S - seems like a norr		ce.	bucket		21	Comment Status D ame contains 1280-bit OH fi	elds. This field is	bucket logically composed of"
SuggestedRemedy					Suggested	0 1	urai		
Add an entry in 1.	3 as necessary.					•	SE-ZR frame contains 1280)_bit ∩H fielde. Th	is field is logically
Proposed Response PROPOSED REJ	Response S ECT.	tatus W			compo		e 400GBASE-ZR frame con		
OIF-400ZR-02.0, 1.3.	Implementation Agr	reement 400ZF	R is already a noi	rmative reference in	Proposed PROP	Response OSED ACCEPT.	Response Status W		
C/ 155 SC 155	2.5.5.3	P 47	L 19	# 60	C/ 155	SC 155.2.5.6	P 47	L 37	# 183
Ran, Adee		Cisco			Huber, Th	omas	Nokia		
Comment Type E	Comment S	Status D		bucket	Comment	Type E	Comment Status D		bucket
C1-14 bits						EC blocks are not ructed' would be	'calculated' (the parity bits a better choice	are calculated, the	e rest are not).
SuggestedRemedy					Suggested	lRemedy			
Change to C1-C1	4 or C<14:1>				00		nput data for the calculation	of SC-FEC input	blocks" to "provides
Proposed Response	Response S				the inp	out data for the co	onstruction of SC-FEC input	blocks".	
PROPOSED ACC	CEPT IN PRINCIPLE	Ξ.			Proposed	Response	Response Status W		
Change "C1-14 bi	its" to: "C1-C14"				PROP	OSED ACCEPT.			
C/ 155 SC 155	2.5.5.4	P 47	L 30	# 182	C/ 155	SC 155.2.5.6	P 47	L 40	# 184
Huber, Thomas		Nokia			Huber, Th	omas	Nokia		
Comment Type E	Comment S	Status D		bucket	Comment	21	Comment Status D		bucket
The first two sente	ences can be combi	ined and made	clearer		The fo	rmula should use	e appropriate arithmetic sym	ibols.	
SuggestedRemedy					Suggested	lRemedy			
		e 400GBASE-2	ZR frame is logic	ally composed of four	Chang	je the x to a multi	plcation symbol and the / to	a division symbo	l.
320-bit structures					Proposed	Response	Response Status W		
Proposed Response PROPOSED ACC	Response S EPT IN PRINCIPLE				PROP	OSED ACCEPT.			
Resolve using the	e response to comm	ent #103							

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: Clause, Subclause, page, line

C/ 155 SC 155.2.5.6 Page 18 of 43 5/5/2023 10:44:34 AM

C/ 155	SC 155.2.5.6	P 47	L 44	# 61	C/ 155	SC 155.2.5.7	7 P 49	L 5	# 205
Ran, Adee		Cisco			Slavick, Jeff		Broadcom		
Comment 1	Гуре Е	Comment Status D		bucket	Comment Typ	e TR	Comment Status D		bucke
	should not be ital						to be incorrect in it's represen		
	are many instanc	es in this drait.					Each of the 5 parity blocks 23.8 * 5 = 119 which means th		
Suggestedl	<i>Remeay</i> t digits as upright	allingtancos					as shown but completely fill		
Proposed F					diagram.	is actually 6	more columns of data and is	just filler and si	nouidh t be part of this
,	OSED ACCEPT	Response Status W			SuggestedRei	medv			
FROE	USED ACCEPT				•••	-	e the 6x119 bit pad text and a	rrow, make the	Bj+3 black outline box
Implem	nent with editoria	license					y boxes, remove the left light		
C/ 155	SC 155.2.5.7	P 48	L 10	# 185	& MBAS O Proposed Res		to the gray box that remains	(which the 6x11	split pad use to point at)
Huber, Tho	omas	Nokia				ED ACCEPT	Response Status W		
Comment 1	Гуре Е	Comment Status D		bucket	FROFOS		•		
Missing	g an indefinite ar	icle			C/ 155	SC 155.2.5.9	P 50	L 13	# 186
Suggestedl	Remedy				Huber, Thoma	as	Nokia		
	e " MBAS requ nal 34 bits of pac	ires additional 34 bits of pad lding."	ding." to "… MB	AS rqeuires an	Comment Typ x should b	e E be a multiplica	Comment Status D ation symbol		bucke
Proposed F	Response	Response Status W			SuggestedRe	medy			
PROPO	OSED ACCEPT	IN PRINCIPLE.			Use the m	nultiplication s	symbol		
plus 38	bits of CRC32 a	nform to this block size, the Ind MBAS requires additiona ze, the SC-FEC block of 244	l 34 bits of padd	ing." To: "In order to	Proposed Res PROPOS	sponse ED ACCEPT	Response Status W		
		bits of additional padding."			C/ 155	SC 155.2.5.1	10 P 50	L 18	# 214
C/ 155	SC 155.2.5.7	P 48	L 12	# 210	Slavick, Jeff		Broadcom		
Slavick, Je	ff	Broadcom			Comment Typ	e TR	Comment Status D		bucke
Comment 7 The 34	51	<i>Comment Status</i> D to be filler to make the lengt	h of the informa	<i>bucket</i>			says the organization is 119 r rows of 119 bits.	rows of 10 970	bits, but this section is
size. T	he SC-FEC is th	en using this to generate the value the 34bit field is so the	e parity data. So	it seems this should	SuggestedRei Change ro	<i>medy</i> ows to colum	ns		
Suggested	Remedy				Proposed Res	sponse	Response Status W		
Juggesieui	e "34-bit pad" to "	34-bit pad of all zeroes"			,		IN PRINCIPLE.		
00	•								
00	Response	Response Status W					ows of 119 bits, but 10976 blo		0

C/ 155 SC 155.2.5.10 Page 19 of 43 5/5/2023 10:44:34 AM

C/ 155	SC 155.2.5.1	0 P 50	L 19	# 212
Slavick, Jef	f	Broadcom		
Comment T	ype TR	Comment Status D		bue
	volutional interl	eaver operates on the scrarr e operations.	nbled stream. N	o need to back
SuggestedF	Remedy			
synchro 10 976	nous scrambler blocks of 119 bi	nce of 10.2.5.10 to be "The s is processed by the convolu- ts where the first 119 bits fro- econd block and so forth."	itional interleave	r and is organized int
Proposed R	esponse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
PROPC	SED ACCEPT	IN PRINCIPLE.		
output fi and is o	rom the frame s rganized into 10	s shown on the left hand side synchronous scrambler is pro 0 976 x 119-bit blocks where wing 199 bits the second blo	the first 119 bits	onvolutional interleav
C/ 155	SC 155.2.5.1	0 P 50	L 22	# 63
Ran, Adee		Cisco		
Comment T	ype ER	Comment Status D		bue
	n the SC-FEC e	olutional interleaver shall be encoded frame in order to im		
		scription of a normative reques the second sec		s already a "shall" in
SuggestedF	Remedy			
Either c	hange "shall be	" to "is" or delete this senten	ce.	
	esnonse	Deemana Chatwa M		
Proposed R PROPC	•	Response Status W IN PRINCIPLE.		
PROPC	•	IN PRINCIPLE.		
PROPC	SED ACCEPT	IN PRINCIPLE.		
PROPC	SED ACCEPT	IN PRINCIPLE.		
PROPC	SED ACCEPT	IN PRINCIPLE.		

C/ 155	SC	155.2.5.11	P 5	0	L 30	# 137	
Dudek, Mik	e		Marv	ell			
Comment T	ype	т	Comment Status	D			bucke
Adding	9 parit	y bits to the	e block won't chan	ge the nu	mber of blocks.		
<i>SuggestedF</i> Change		<i>y</i> 6 to 10976,					
Proposed R PROPC	•		<i>Response Status</i> N PRINCIPLE.	w			
Resolve	using	the respo	nse to comment #1	87			
C/ 155	SC	155.2.5.11	P 5	0	L 30	# 216	
Slavick, Jef	f		Broa	dcom			
Slavick, Jef Comment T		TR	Broa Comment Status				buck
Comment T Looks li	ype ke yoı	I're adding	Comment Status 9b of parity to eacl	D n 119bit k			
Comment T Looks li number	ype ke you of inp	u're adding ut blocks to	Comment Status	D n 119bit k			
Comment T Looks li number SuggestedF	ype ke you of inp Remed	u're adding ut blocks to y	Comment Status 9b of parity to eacl o output blocks sho	D n 119bit b puld be th	e same.	128b blocks. So	
Comment T Looks li number SuggestedF Remove	ype ke you of inp ?emed e the 1	u're adding ut blocks to y 0 976 and	Comment Status 9b of parity to each o output blocks sho 10 796 from the la	D n 119bit b buld be th st senten	e same.	128b blocks. So	
Comment T Looks li number SuggestedF Remove Proposed R	ype ke you of inp ?emed e the 1 espon	u're adding ut blocks to y 0 976 and se	Comment Status 9b of parity to each o output blocks sho 10 796 from the lat Response Status	D n 119bit b puld be th	e same.	128b blocks. So	
Comment T Looks li number SuggestedF Remove Proposed R PROPC	ype ke you of inp eemed e the 1 espon	l're adding ut blocks to y 0 976 and se ACCEPT II	Comment Status 9b of parity to each poutput blocks sho 10 796 from the lat Response Status N PRINCIPLE.	D n 119bit k buld be th st senten W	e same.	128b blocks. So	bucke the
Comment T Looks li number SuggestedF Remove Proposed R PROPC	ype ke you of inp eemed e the 1 espon	l're adding ut blocks to y 0 976 and se ACCEPT II	Comment Status 9b of parity to each o output blocks sho 10 796 from the lat Response Status	D n 119bit k buld be th st senten W	e same.	128b blocks. So	
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve	ype ke you of inp eemed e the 1 espon SED SED	l're adding ut blocks to y 0 976 and se ACCEPT II	Comment Status 9b of parity to each poutput blocks sho 10 796 from the lat Response Status N PRINCIPLE.	D n 119bit b build be th st senten W 187	e same.	128b blocks. So	
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve	ype ke you of inp eemed e the 1 espon SED SED SC	I're adding ut blocks to y 0 976 and se ACCEPT If the respon	Comment Status 9b of parity to each poutput blocks sho 10 796 from the lar Response Status N PRINCIPLE. Inse to comment # P 5	D n 119bit b build be th st senten W 187	e same. ce of the first pa	128b blocks. So ragraph.	
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef	ype ke you of inp eemed e the 1 espon SED susing SC	I're adding ut blocks to y 0 976 and se ACCEPT If the respon	Comment Status 9b of parity to each poutput blocks sho 10 796 from the lar Response Status N PRINCIPLE. Inse to comment # P 5	D n 119bit b build be th st senten W 187 0 dcom	e same. ce of the first pa	128b blocks. So ragraph. # 2 <u>13</u>	
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef Comment T Is the S	ype ke you of inp emed e the 1 espon SED SED sc f ype D-FEC	're adding ut blocks to y 0 976 and se ACCEPT If the respon 155.2.5.11 TR C codeword	Comment Status 9b of parity to eacl o output blocks sho 10 796 from the la Response Status N PRINCIPLE. nse to comment # P 5 Broa	D n 119bit k build be th st senten W 187 0 dcom D	e same. ce of the first pa <i>L</i> 30	128b blocks. So ragraph. # 213	the
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef Comment T Is the S	ype ke you of inp eemed e the 1 espon SED SED susing SC f ype D-FEC it not	I're adding ut blocks to y 0 976 and se ACCEPT If the respon 155.2.5.11 TR C codeword readily dist	Comment Status 9b of parity to eacl o output blocks sho 10 796 from the lar Response Status N PRINCIPLE. nse to comment # P 5 Broa Comment Status I is not 10.8 billion	D n 119bit k build be th st senten W 187 0 dcom D	e same. ce of the first pa <i>L</i> 30	128b blocks. So ragraph. # 213	bucke
Comment T Looks II number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef Comment T Is the S the size SuggestedF Add the	ype ke you of inp 2emea ≥ the 1 espon SED SC f ype D-FEC it not 2emea wide	I're adding ut blocks to y 0 976 and se ACCEPT II the respon 155.2.5.11 TR C codeword readily dist	Comment Status 9b of parity to eacl o output blocks sho 10 796 from the lar <i>Response Status</i> N PRINCIPLE. Inse to comment # <i>P</i> 5 Broa <i>Comment Status</i> d is not 10.8 billion tinguishable	D n 119bit b ould be th st senten W 187 0 dcom D bits, but t	e same. ce of the first pa <i>L</i> 30 the number of co	128b blocks. So ragraph. # <u>213</u> odewords created	bucke
Comment T Looks li number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef Comment T	ype ke you of inp eemed e the 1 espon SED SED susing SC f ype	I're adding ut blocks to y 0 976 and se ACCEPT If the respon 155.2.5.11 TR	Comment Status 9b of parity to eacl o output blocks sho 10 796 from the la Response Status N PRINCIPLE. Inse to comment # P 5 Broa Comment Status	D n 119bit k build be th st senten W 187 0 dcom D	e same. ce of the first pa <i>L</i> 30	128b blocks. So ragraph. # 213	buck
Comment T Looks II number SuggestedF Remove Proposed R PROPC Resolve Cl 155 Slavick, Jef Comment T Is the S the size SuggestedF Add the	ype ke you of inp eemed e the 1 espon SED SC f ype D-FEC it not eemed wide n the 7	're adding ut blocks to y 0 976 and se ACCEPT II the respon 155.2.5.11 TR C codeword readily dist y "x" between '96 and the	Comment Status 9b of parity to eacl o output blocks sho 10 796 from the lar <i>Response Status</i> N PRINCIPLE. Inse to comment # <i>P</i> 5 Broa <i>Comment Status</i> d is not 10.8 billion tinguishable	D n 119bit b ould be th st senten W 187 0 dcom D bits, but t	e same. ce of the first pa <i>L</i> 30 the number of co	128b blocks. So ragraph. # <u>213</u> odewords created	buck

C/ 155 SC 155.2.5.	11 P 50	L 30	# 187	C/ 155	SC 155.2.6.2	P 52	L 13	# 65
Huber, Thomas	Nokia			Ran, Ade	е	Cisco		
Comment Type T The number of 128-bi	Comment Status D t blocks is incorrect		buck		51	Comment Status D cammatically match "shall pe	erform"	bucke
SuggestedRemedy Change 10796 to 109	76.			<i>Suggeste</i> Chan	<i>dRemedy</i> ge to "produce"			
Proposed Response PROPOSED ACCEP ⁻	Response Status W			,	Response POSED ACCEPT	Response Status W		
C/ 155 SC 155.2.5.	11 P 50	L 33	# 260	C/ 155	SC 155.2.6.2	P 52	L 14	# 104
Law, David	Hewlett Pack	ard Enterprise		Bruckmar	n, Leon	Huawei		
Comment Type E	Comment Status D		buck	t Comment	Туре Т	Comment Status D		bucke
primitive.'. SuggestedRemedy See comment.			·	resolı <i>Suggeste</i> Delet	dRemedy	the left hand side of Figure 1	155–8"	-
Proposed Response PROPOSED ACCEP ⁻	Response Status W				Response POSED ACCEPT	Response Status W		
C/ 155 SC 155.2.6.	1 P 52	L 9	# 64	C/ 155	SC 155.2.6.2	P 52	L 14	# 217
Ran, Adee	Cisco			Slavick, J	eff	Broadcom		
Comment Type E 119 bit	Comment Status D		buck		51	Comment Status D Insmit bit order diagram.		bucke
SuggestedRemedy 119-bit				Suggeste Delet	dRemedy e everything after	the word bits		
Proposed Response PROPOSED ACCEP ⁻	Response Status W T IN PRINCIPLE.				Response POSED ACCEPT	Response Status WIN PRINCIPLE.		
Change: "119 bit mes	sages" to "119-bit blocks"					f 10 976 x 119 bits as depict of 10 976 x 119-bit blocks."	ted in the left har	nd side of Figure

C/ 155 S	SC 155.2.6.4	P 52	L 23	# 218		C/ 155	SC 155.2.6.5	P 52	L 36	# 67
Slavick, Jeff		Broadcom				Ran, Adee		Cisco		
Comment Type The 10 976		Comment Status D ave been called blocks up to	this point.		bucket	<i>Comment Tyբ</i> "The PCS		Comment Status D umber of bits corrected by	y the SC-FEC deco	buc oder"
<i>uggestedRem</i> Change rov	<i>nedy</i> ws to blocks					Then on I	_39-40: "the n	umber of symbol errors d	etected is increase	ed by 957 x 257"
roposed Resp PROPOSE	<i>ponse</i> ED ACCEPT.	Response Status W						it errors, not symbol error (usually corrected, but w		
:/ 155 So	SC 155.2.6.5	P 52	L 31	# 138		Then on I	_42: "if the nu	mber of symbol errors is l	ess than"	
udek, Mike		Marvell				The text s	should be cons	sistent - bit errors, not syr	nbols; and not nec	essarily corrected.
omment Type		Comment Status D			bucket	SuggestedRe	medy			
I he senten uggestedRem		hat confusing due to "signal	l" being both a n	oun and verb.		Change "	The PCS cour	nts the number of bits cor r of bit errors detected by		
to "signal th	he presence	"to" and "signal" or use simil of a degraded received signa Response Status W			lange it		the number of is increased".	symbol errors detected is	s increased" to "the	e number of bit errors
to "signal th proposed Resp PROPOSE	the presence o ponse ED ACCEPT I signal degrada		al".		-	detected Change " Proposed Rea	is increased". if the number	of symbol errors" to "if the Response Status W		
to "signal th roposed Resp PROPOSE Change: "s received sig	the presence o ponse ED ACCEPT I signal degrada	of a degraded received signa Response Status W N PRINCIPLE.	al".		-	detected Change " Proposed Re. PROPOS	is increased". if the number sponse	of symbol errors" to "if the Response Status W		
to "signal th roposed Resp PROPOSE Change: "s received sig / 155 St	he presence ponse ED ACCEPT I signal degrada ignal."	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal."	al". to "signal the pr	resence of a deg	-	detected Change " Proposed Re. PROPOS	is increased". if the number sponse SED ACCEPT.	of symbol errors" to "if the Response Status W	e number of bit erro	ors detected".
to "signal th roposed Resp PROPOSE Change: "s received sig / 155 So tan, Adee omment Type "FEC_degr	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable"	al". to "signal the pr	resence of a deg	-	detected Change " Proposed Re. PROPOS CI 155 Ran, Adee Comment Typ	is increased". if the number sponse EED ACCEPT. SC 155.2.6.5 be E	of symbol errors" to "if the Response Status W	e number of bit erro	bors detected". # <u>68</u> buc
to "signal th Proposed Resp PROPOSE Change: "s received sig 155 St Ran, Adee Comment Type "FEC_degr one unders uggestedRem	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER raded_SER_a score too mar nedy	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable"	al". to "signal the pr	resence of a deg	graded	detected Change " Proposed Re. PROPOS C/ 155 Ran, Adee Comment Typ "in conse 155.5)"	is increased". if the number sponse ED ACCEPT. SC 155.2.6.5 De E cutive non-ove	of symbol errors" to "if the Response Status W P 52 Cisco Comment Status D	e number of bit erro <i>L</i> 37	bors detected". # <u>68</u> buc
to "signal th roposed Resp PROPOSE Change: "s received sig / 155 St tan, Adee omment Type "FEC_degr. one unders uggestedRem Change to " roposed Resp	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER raded_SER_a score too mar nedy "FEC_degrad ponse	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable" ny.	al". to "signal the pr	resence of a deg	graded	detected Change " Proposed Re- PROPOS C/ 155 Ran, Adee Comment Tyµ "in conse 155.5)" The word In clause	is increased". if the number sponse ED ACCEPT. SC 155.2.6.5 DE E cutive non-ove ing "of FEC_d 119 the corre:	of symbol errors" to "if the <i>Response Status</i> W <i>P</i> 52 Cisco <i>Comment Status</i> D erlapping SC-FEC frames	e number of bit erro <i>L</i> 37 of FEC_degraded s unclear.	# <mark>68</mark> <i>buc</i>
to "signal th roposed Resp PROPOSE Change: "s received sig / 155 St tan, Adee omment Type "FEC_degr. one unders uggestedRem Change to " roposed Resp	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER raded_SER_a score too mar nedy "FEC_degrad	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable" ny. ded_SER_ability variable"	al". to "signal the pr	resence of a deg	graded	detected Change " Proposed Re- PROPOS C/ 155 Ran, Adee Comment Tyµ "in conse 155.5)" The word In clause	is increased". if the number sponse ED ACCEPT. SC 155.2.6.5 De E cutive non-ove ing "of FEC_d 119 the corre: raded_SER_ii	of symbol errors" to "if the <i>Response Status</i> W <i>P</i> 52 <i>Cisco</i> <i>Comment Status</i> D erlapping SC-FEC frames egraded_SER_interval" is sponding wording is "in co	e number of bit erro <i>L</i> 37 of FEC_degraded s unclear.	# <mark>68</mark> <i>buc</i>
to "signal th roposed Resp PROPOSE Change: "s received sig 155 St Ran, Adee "FEC_degr. one unders uggestedRem Change to " proposed Resp	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER raded_SER_a score too mar nedy "FEC_degrad ponse	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable" ny. ded_SER_ability variable"	al". to "signal the pr	resence of a deg	graded	detected Change " Proposed Re. PROPOS C/ 155 Ran, Adee Comment Typ "in conse 155.5)" The word In clause FEC_deg SuggestedRe Change t	is increased". if the number sponse ED ACCEPT. SC 155.2.6.5 De E cutive non-ove ing "of FEC_d 119 the corre: raded_SER_in medy	of symbol errors" to "if the <i>Response Status</i> W <i>P</i> 52 <i>Cisco</i> <i>Comment Status</i> D erlapping SC-FEC frames egraded_SER_interval" is sponding wording is "in conterval codewords (see 1 ive non-overlapping block	e number of bit erro <i>L</i> 37 of FEC_degraded s unclear. onsecutive nonove 19.3.1),"	# <u>68</u> <i>buc</i> SER_interval (see
to "signal th Proposed Resp PROPOSE Change: "s received sig Cl 155 St Ran, Adee Comment Type "FEC_degr. one unders SuggestedRem Change to " Proposed Resp	the presence of ponse ED ACCEPT I signal degrada ignal." SC 155.2.6.5 e ER raded_SER_a score too mar nedy "FEC_degrad ponse	of a degraded received signa <i>Response Status</i> W IN PRINCIPLE. ation of the received signal." <i>P</i> 52 Cisco <i>Comment Status</i> D ability_variable" ny. ded_SER_ability variable"	al". to "signal the pr	resence of a deg	graded	detected Change " Proposed Re. PROPOS C/ 155 Ran, Adee Comment Typ "in conse 155.5)" The word In clause FEC_deg SuggestedRe Change t	is increased". if the number sponse ED ACCEPT. SC 155.2.6.5 De E cutive non-ove ing "of FEC_d 119 the corre: raded_SER_in medy o "in consecut tes (see 155.5	of symbol errors" to "if the <i>Response Status</i> W <i>P</i> 52 <i>Cisco</i> <i>Comment Status</i> D erlapping SC-FEC frames egraded_SER_interval" is sponding wording is "in conterval codewords (see 1 ive non-overlapping block	e number of bit erro <i>L</i> 37 of FEC_degraded s unclear. onsecutive nonove 19.3.1),"	# <u>68</u> <i>buc</i> SER_interval (see

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C/ 155 SC 155.2.6.7	P 53	L 1	# 69		C/ 155	SC 1	55.2.6.7	P 53	L 12	# 189
Ran, Adee	Cisco				Huber, Th	omas		Nokia		
Comment Type E ("detect and removal" in her SuggestedRemedy Change to "detection and r	0			bucket	field ir that fie	erm 'OH t the fran eld. I wou	ne, some uld be mo	Comment Status D ing overloaded in the text times it is referring to spec re clear to use "OH field"	cific overhead info	rmation elements within
-	esponse Status W					je: AM lock	has beer	n acquired, the OH fields I GMP de-mapper and for o		JC1-JC6 can be
Cl 155 SC 155.2.6.7 Bruckman, Leon Comment Type T C There is an entry in the PIC	P 53 Huawei Comment Status D CS to test this function, I	L 8		bucket	To: Once extrac Proposed	AM lock ted from <i>Respons</i>	has been the OH fi se	acquired, the MFAS, stat eld for use by the GMP de <i>Response Status</i> W N PRINCIPLE.	us, and JC1-JC6	
SuggestedRemedy Replace: "the AM and OH Proposed Response R PROPOSED ACCEPT.	fields need to be" with: " esponse Status W	'the AM and OH	fields shall be"		extrac been a	ted for u	se by the , the MFA	has been acquired, the C GMP de-mapper and for e S, status, and JC1-JC6 in P de-mapper and for error	error signaling." T formation may be	o: "Once AM lock has
C/ 155 SC 155.2.6.7	P 53	L 12	# 242		C/ 155		55.2.6.7	P 53	L 15	# 190
Brown, Matt	Huawei				Huber, Th			Nokia		
Comment Type E C	Comment Status D			bucket	Comment		E	Comment Status D		bucket
The word "can" in this cont			ot clear if this is sta	ating	There	is only c	one 1280-	bit overhead field		
what shall happen, what m	ay happen, or what migl	ht happen.			Suggested	Remedy	/			
SuggestedRemedy					Chang	ge "overh	nead fields	s" to "overhead field"		
Change "Once AM lock ha be extracted for use by the To				can	Proposed PROP		se REJECT.	Response Status W		
"Once AM lock has been a for use by the GMP de-ma			d JC1-JC6 are extra	acted	The de	ecision w	vas made	in the D2.0 rewrite to use	the term "OH field	ds".
or "Once AM lock has been a extracted for use by the GM			d JC1-JC6 may be							
Proposed Response R	esponse Status 🛛 🛛 🛛 🛛 🛛 🛛 🗤									
PROPOSED ACCEPT IN F	PRINCIPLE.									
Resolve using the respons	e to comment #189									

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: Clause, Subclause, page, line

CI 155 SC 155.2	.6.7.1	P 53	L 19	# 191	C/ 155	SC	155.2.6.7	.2	P 53	L 38	# 245
Huber, Thomas		Nokia			Maniloff, I	Eric			Ciena		
Comment Type T	Comme	nt Status D		bucket	Comment	Туре	т	Comment	Status D		buck
The description of I	MFAS alignmer	nt is more comple	x than it needs to	be	For lir	nk degra	ace monito	oring, the CF	EC not SC-FEC	BER is used	
SuggestedRemedy					Suggestee	dRemed	dy				
Change the section Change the text of	the clause to re	ead:	Ū				-FEC bit e hin the CFI		nitors within the	SC-FEC" to "Pre	e-FEC bit error ratio
Alignment to the fo multiframe is used FIgure 155-5				of the MFAS. The elements shown in	Proposed PROF	,	nse ACCEPT.		Status W		
Proposed Response	Respons	e Status 🛛 🛛 🛛 🖤			C/ 155	SC	155.2.6.8		P 54	L 3	# 192
PROPOSED ACCE	EPT IN PRINCI	PLE.			Huber, Th	nomas			Nokia		
	to determine th de-interleaving	he contents of the g from the 1280 b	e 5th and 6th octe hit OH fields." To	the two LSBs of ts of the 320-bit OH "Alignment to the four-	paran that w	neters h vere me	nave not be intioned in	een mentione the tx clause	ed before, there	s being used by r	ed in the GMP Cm(t) and ∑CnD(t) eference to other
C/ 155 SC 155.2	.6.7.1	P 53	L 22	# 106	Suggestee	dRemed	dy				
Bruckman, Leon		Huawei						ubclause to			
Comment Type E	Comme	nt Status D		bucket						ets according to ameters Cm(t) a	the procedures nd ∑CnD(t), and use
"to determine the c correct, but in the fi						to recov					frame by the GMP
confusion					Proposed	Respor	nse	Response	Status W		
SuggestedRemedy					PROF	POSED	ACCEPT	IN PRINCIP	LE.		
Replace: "to detern "to determine the c				320-bit OH fields" with: H fields"	Chang	ge the s	subclause	text to read:	"The GMP-dem	apped shall deco	ode the JC1-JC6 octets
Proposed Response	Respons	e Status W									over the parameters
PROPOSED ACCE	EPT IN PRINCI	PLE.							and the signal s		s that were inserted
Resolve using the r	esponse to cor	mment #191									

C/ 155 SC 155.2.6.	.10 <i>P</i> 54	L 21	# 72	C/ 155 SC 155.3.	1.3 P 55	L 5	# 107
Ran, Adee	Cisco	L Z I	π 12	Bruckman, Leon	Huawei	23	# 107
Comment Type E	Comment Status D		bucket	Comment Type T	Comment Status D		bucke
21	should be "shall decode 66-b	it blocks" to aligr		21	nbol rate of the incoming sigr	nals" this text (cha	
This applies to 3 insta	ances of "blocks" in this subcla	ause		SuggestedRemedy			
SuggestedRemedy				Delete: "at the symb	ol rate"		
Change per comment	t.			Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCE	PT.		
PROPOSED ACCEP	1			C/ 155 SC 155.3.	1.3 <i>P</i> 55	L 10	# 193
			"	Huber, Thomas	Nokia		
C/ 155 SC 155.2.9		L 43	# 188	Comment Type E	Comment Status D		bucket
Huber, Thomas	Nokia			51	comma separating a list of t	wo items: "state o	f polarization, and
, <u>,</u>	Comment Status D t here is that the test signal is		5	being incorrectly par	spersion". Presumably the c sed as "state of (polarization	and polarization m	node dispersion)".
stream of idle charact	ters; as written, it implies a sir	ngle Idle control b	olock.	Rather than an awk	vard comma, the 'both and'	construct can be	used.
				SuggestedRemedy			
SuggestedRemedy Replace: The scrambled idle te	est pattern is the output of the	PCS when the ir	put to the PCS at the	change " including	state of polarization, and po		
Replace: The scrambled idle te 400GMII is a control b	est pattern is the output of the block with all idle characters.	PCS when the ir	put to the PCS at the	change " including including both state	of polarization and polarizatio		
Replace: The scrambled idle te 400GMII is a control b with The scrambled idle te	block with all idle characters. est pattern is generated by app	olying a signal co		change " including	of polarization and polarization Response Status W		
Replace: The scrambled idle te 400GMII is a control b with The scrambled idle te continuous stream of	block with all idle characters. est pattern is generated by app idle control characters at the	olying a signal co		change " including including both state Proposed Response	of polarization and polarizatio <i>Response Status</i> W PT.		
Replace: The scrambled idle te 400GMII is a control b with The scrambled idle te continuous stream of	block with all idle characters. est pattern is generated by app idle control characters at the Response Status W	olying a signal co		change " including including both state Proposed Response PROPOSED ACCE	of polarization and polarizatio <i>Response Status</i> W PT.	n mode dispersior	n;"
Replace: The scrambled idle te 400GMII is a control b with The scrambled idle te continuous stream of proposed Response PROPOSED ACCEP	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T.	blying a signal co 400GMII.	nsisting of a	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3.	of polarization and polarization Response Status W PT. 1.3 P 55	n mode dispersior	n;"
Replace: The scrambled idle te 400GMII is a control b with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP	block with all idle characters. est pattern is generated by app idle control characters at the Response Status W	olying a signal co		change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E	of polarization and polarization Response Status W PT. 1.3 P 55 Cisco	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control f with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T.	blying a signal co 400GMII.	nsisting of a	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E	of polarization and polarization Response Status W PT. 1.3 P 55 Cisco Comment Status D	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control to with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP Cl 155 SC 155.3.1 Ran, Adee Comment Type ER	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T. <i>P</i> 54 Cisco <i>Comment Status</i> D	olying a signal co 400GMII. <i>L</i> 54	# 7 <u>3</u> bucket	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E Item k starts with "P	of polarization and polarization <i>Response Status</i> W PT. 1.3 <i>P</i> 55 Cisco <i>Comment Status</i> D rovide". To align with all other	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control to with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP Cl 155 SC 155.3.1 Ran, Adee Comment Type ER	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T. <i>P</i> 54 Cisco <i>Comment Status</i> D a Attachment (PMA) sublayer for the status of the sublayer for th	olying a signal co 400GMII. <i>L</i> 54	# 7 <u>3</u> bucket	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E Item k starts with "P SuggestedRemedy Change per comme Proposed Response	of polarization and polarization <i>Response Status</i> W PT. 1.3 <i>P</i> 55 Cisco <i>Comment Status</i> D rovide". To align with all other nt. <i>Response Status</i> W	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control f with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP 7 155 SC 155.3.1 Ran, Adee Comment Type ER "the Physical Medium implementation know	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T. <i>P</i> 54 Cisco <i>Comment Status</i> D Attachment (PMA) sublayer for n as 400GBASE-ZR"	blying a signal co 400GMII. <i>L</i> 54 for the 400 Gb/s	# 7 <u>3</u> bucket	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E Item k starts with "P SuggestedRemedy Change per comme	of polarization and polarization <i>Response Status</i> W PT. 1.3 <i>P</i> 55 Cisco <i>Comment Status</i> D rovide". To align with all other nt. <i>Response Status</i> W	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control to with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP Cl 155 SC 155.3.1 Ran, Adee Comment Type ER "the Physical Medium implementation know Too wordy. This is a s	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T. <i>P</i> 54 Cisco <i>Comment Status</i> D a Attachment (PMA) sublayer for the status of the sublayer for th	blying a signal co 400GMII. <i>L</i> 54 for the 400 Gb/s	# 7 <u>3</u> bucket	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E Item k starts with "P SuggestedRemedy Change per comme Proposed Response	of polarization and polarization <i>Response Status</i> W PT. 1.3 <i>P</i> 55 Cisco <i>Comment Status</i> D rovide". To align with all other nt. <i>Response Status</i> W	n mode dispersion	n;" # [<u>74</u> bucket
Replace: The scrambled idle te 400GMII is a control f with The scrambled idle te continuous stream of Proposed Response PROPOSED ACCEP Cl 155 SC 155.3.1 Ran, Adee Comment Type ER "the Physical Medium implementation know Too wordy. This is a s SuggestedRemedy	block with all idle characters. est pattern is generated by app idle control characters at the <i>Response Status</i> W T. <i>P</i> 54 Cisco <i>Comment Status</i> D Attachment (PMA) sublayer for n as 400GBASE-ZR"	blying a signal co 400GMII. <i>L</i> 54 for the 400 Gb/s IYs.	# <u>73</u> <i>bucket</i> Physical Layer	change " including including both state Proposed Response PROPOSED ACCE Cl 155 SC 155.3. Ran, Adee Comment Type E Item k starts with "P SuggestedRemedy Change per comme Proposed Response	of polarization and polarization <i>Response Status</i> W PT. 1.3 <i>P</i> 55 Cisco <i>Comment Status</i> D rovide". To align with all other nt. <i>Response Status</i> W	n mode dispersion	n;" # [<u>74</u> bucket

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: Clause, Subclause, page, line

C/ 155 SC 155.3.1.3 Page 25 of 43 5/5/2023 10:44:35 AM

C/ 155 SC 155.3	3.1.3 P 56	L 10	# 194	C/ 155 S	C 155.3.2.2.1	P 57	L 43	# 108
Huber, Thomas	Nokia			Bruckman, Leo	on	Huawei		
not align well with t	Comment Status D ay coding and polarization distribute the text that follows; the Gray co DP16QAM symbols.			Comment Type Typo in eq SuggestedRen	uation: (k*4+1*m)	ent Status D		buck
SuggestedRemedy				Replace: "	(k*4+1*m)" with: "(k*4	+1)*m"		
Combine the Gray process in the figure	coding, symbol interleaving, an re.	nd polarization dist	ribution into a single	Proposed Resp PROPOSE	oonse Respor D ACCEPT.	nse Status W		
Proposed Response PROPOSED ACCI	Response Status W				C 155.3.2.2.2	P 57	L 51	# 75
	3.2.2.1 P 57	L 41	# 196	Ran, Adee	T Comm	Cisco ent Status D		huok
Huber, Thomas	Nokia	L 41	# 190	Comment Type	e T Comm 28-bit SD-FEC codew			bucke
Comment Type E	Comment Status D		bucket	But accord		e message has 128	3 x m bits. The 12	8 bits are generated in
In all of the rx_cod than *	eword expressions, the multiplic	cation symbol × sr	hould be used rather	SuggestedRen	nedy			
SuggestedRemedy				Change to	"for each SD-FEC co	deword".		
Replace all instance	ces of * with ×			Proposed Resp	oonse Respor	nse Status 🛛 🛛 🛛 🛛 🛛 🗤		
Proposed Response	Response Status W			PROPOSE	D ACCEPT.			
PROPOSED ACCI	•			C/ 155 S	C 155.3.2.3.1	P 58	L 15	# 220
C/ 155 SC 155.3	3.2.2.1 <i>P</i> 57	L 43	# 195	Brown, Matt		Huawei		
Huber, Thomas	Nokia			Comment Type		ent Status D		bucke
Comment Type T	Comment Status D		bucket	The word "	can" in this context is	deprecated per sty	/le guide.	
The closing parent	hesis for the second index is in	the wrong place		SuggestedRen				
S <i>uggestedRemedy</i> Change (k*4+1*m)	to (k*4+1)*m			To: "The S	he SIGNAL_OK parai IGNAL_OK paramete			
Proposed Response	Response Status W EPT IN PRINCIPLE.			Proposed Resµ PROPOSE	oonse Respor DACCEPT.	ise Status W		
Resolve using the	response to comment #108.							

C/ 155 SC 155.3.2.3.1

C/ 155 SC									
	C 155.3.3	P 58	L 31	# 76	C/ 155	SC 155.3.3	P 58	L 34	# 197
Ran, Adee		Cisco			Huber, Tho	mas	Nokia		
Comment Type	ER	Comment Status D		bucket	Comment 7	⁻ уре Т	Comment Status D		bucket
carries a 12 The transm	28-bit SD-FEC	ction) or output (receive dir codeword at 1/128 the Df directions do not carry the	P-16QAM symbo	l rate"	transfe betwee	r between PCS	en PCS and PMA seems to b and PMA has 128 bits, or 16 A would be 1/16 the DP-16Q, bit rate.	DP-16QAM sym	bols, so the rate
transaction	of the service	e interface.			Suggestedl	Remedy			
The interfac	ce carries cod	ewords, not a single code	vord.		Either	change to 1/16,	or change "DP-16QAM symb	ool rate" to "DP-1	6QAM bit rate".
Also synta	x can be impr	oved			Proposed F	Response	Response Status W		
SuggestedRem	•	0700.			PROPO	OSED ACCEPT	IN PRINCIPLE.		
00	,	ence to "The input (transmi	t direction) of the	PMA carries 128-bit	Change	e 1/128 to 1/16.	See response to comment #	ŧ76	
SD-FEC co	dewords at 1/	128 the DP-16QAM symbol	ol rate from the F	CS. The output	C/ 155	SC 155.3.3	P 58	L 36	# 78
		PMA carries 128 x m bits i mbol rate to the PCS".	epresenting the	SD-FEC decoder input	Ran, Adee	00 100.0.0	Cisco	L 30	# [/0
Proposed Resp	•	Response Status W			Comment 1	vpe ER	Comment Status D		bucket
• •		N PRINCIPLE.					me nominal signaling rate"		Bucket
#197.)Chan	nge to: "The in at 1/16 the D	symbol rate, but 1/16 the s put (transmit direction) of t P-16QAM symbol rate fron	he PMA carries 1 In the PCS. The c	28-bit SD-FEC putput (receive	What is	the rate?	t the same as the PCS-PMA	rate.	
direction) o	f the PMA car QAM symbol r	ries 128 x m bits represen ate to the PCS"			Suggested	,	dding the neminal signaling	roto ovalicitly	
direction) or the DP-16C	of the PMA car QAM symbol ra C 155.3.3	ries 128 x m bits represen ate to the PCS" <i>P</i> 58	L 34	# 77	Rephra	ise, preferably a	adding the nominal signaling i	rate explicitly.	
direction) or the DP-16G C/ 155 St	QAM symbol r	ate to the PCS"	-		Rephra Proposed F	ise, preferably a Response	Response Status W	rate explicitly.	
direction) or the DP-16C C/ 155 SC Ran, Adee	QAM symbol ra C 155.3.3	ate to the PCS" P 58 Cisco	-		Rephra Proposed F	ise, preferably a Response		rate explicitly.	
direction) or the DP-16G C/ 155 So Ran, Adee Comment Type "Likewise" i	2AM symbol r C 155.3.3 E ER	ate to the PCS"	L 34	# 77 bucket	Rephra Proposed F PROP(se, preferably a Response DSED ACCEPT	Response Status W	rate explicitly.	
direction) or the DP-16G C/ 155 So Ran, Adee Comment Type "Likewise" i interface wi	C 155.3.3 C 155.3.3 E ER is inadequate; ith the PCS.	P 58 Cisco Comment Status D	L 34	# 77 bucket	Rephra Proposed F PROP(se, preferably a Response DSED ACCEPT	Response Status W IN PRINCIPLE.	rate explicitly.	
direction) or the DP-16G Cl 155 So Ran, Adee Comment Type "Likewise" i interface wi This should SuggestedRem	C 155.3.3 ER is inadequate; ith the PCS. be a separat	P 58 P 58 Cisco Comment Status D the interface between the	L 34	# 77 bucket	Rephra Proposed F PROP(se, preferably a Response DSED ACCEPT	Response Status W IN PRINCIPLE.	rate explicitly.	

C/ 155 SC 155.3.3

Cl 155	SC 155.3.3	P 58	L 36	# 198	
Huber, Tho	mas	Nokia			
Comment T	уре Т	Comment Status D			bucket

The last sentence has a few issues. The use of "Likewise" to begin the sentence seems not quite right since the interface between PCS and PMA and the interface between PMA and PMD are quite different. The list of components should have 'and' rather than 'or'. It's not clear if the last clause about nominal signaling rate is intended to mean the 4 components all have the same nominal rate, or that collectively they support the same rate as the PCS-to-PMA interface supports.

SuggestedRemedy

Rewrite the sentence: The input (receive direction) or output (transmit direction) signals between the PMA and PMD carry analog signals representing the components of DP-16QAM symbols (namely, XI, XQ, Yi, and YQ). All of the components operate a thte same nominal signaling rate.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The rate at the PMA to PMD service interface is higher than the rate at the PCS to PMA service interface due to the addition of Pilot, FAW and reserved symbols to create the DSP frame. Change: "Likewise, the input (receive direction) or output (transmit direction) signals between the PMA and PMD carry analog signals representing the components of symbols, namely XI, XQ, YI, or YQ, and operate at the same nominal signaling rate." To: "The input (receive direction) or output (transmit direction) signals between the PMA and PMD carry analog signals representing the components of Likewise, the input (receive direction) or output (transmit direction) signals between the PMA and PMD carry analog signals representing the components of DP-16QAM symbols (namely, XI, XQ, YI, and YQ)."

C/ 155	SC	155.3.3.1.1	P 5	8	L 45	# 199
Huber, Th	nomas		Nokia	1		
Comment	Туре	т	Comment Status	D		bucket
The s function		oaragraph se	eems out of place s	since	e this subclause is dis	cussing the transmit

SuggestedRemedy

Delete the paragraph.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 155	SC 155.3.3.	1.1 P 5	8 L 49	# 262
Law, Davi	d	Hewl	ett Packard Enterp	rise
Comment	Туре Е	Comment Status	D	buck
chang		h SD-FEC codeword p		EC encoder' should be PMA service interface from
Suggested See c	<i>Remedy</i> omment.			
•	Response OSED ACCEP	Response Status T.	w	
C/ 155	SC 155.3.3.	1.1 P 5	i9 <i>L</i> 10	# 200
Huber, Th	omas	Noki	а	
Comment	Туре Т	Comment Status	D	buck
				xcept for the headings of nd combine the headings

columns 1 and 4. It would be better to reduce to 3 columns and combine the headin appropriately.

SuggestedRemedy

Delete columns 4-6. Change the heading of columns 2 and 3 to I and Q, respectively. Change the heading of column 1 to X: (c8i,m c8i+1, c8i+2, c8i+3) Y: (c8i+4, c8i+5, c8i+6, c8i+7)

Proposed Response Response Status W

PROPOSED REJECT.

Making the suggested change will not enhance the clarity of the draft and the column headings align with the symbol labels in 155.3.3.1.1.

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: Clause, Subclause, page, line

C/ 155 SC 155.3.3.1.1 Page 28 of 43 5/5/2023 10:44:35 AM bucket

C/ 155	SC	155.3.3.1.2	P 5	9	L 42	#	201
Huber, Tho	omas		Nokia	1			
Comment 7	Гуре	т	Comment Status	D			bucket

This sentence (which appears to be copied firectly from 400ZR) is out of place here - there is no context for what pilot symbols are. The first sentence of the second paragraph (which also appears to come from 400ZR) is not necessary to understand how the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving process is mapped into the transmission frame), and the two paragraphs can otherwise be combined.

SuggestedRemedy

Replace the first paragraph and first sentence of the second paragraph with: The DP-16QAM symbols from 16 SD-FEC codewords are time-interleaved to decorrelate the noise between consecutively received symbols.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 155	SC 155.3.3.1.2	P 59	L 46	#	263
Law, David		Hewlett Pack	kard Enterprise		

Comment Type T Comment Status D

It seems odd to say that 'Prior to ... frame construction, each frame consists of 10 976 x 16 DP-16QAM symbols.', if the frame hasn't been constructed it doesn't consist of anything. In addition, subclause 155.3.3.1.3 'Transmission multi-frame and frame' says 'Each multi-frame is made up of 49 frames, each with 3712 symbols.'. It, therefore, appears that the reference to 'each frame consists of 10 976 x 16 DP-16QAM symbols' is about 400GBASE-ZR frames used within PCS, rather than the multi-frame and frame used within the PMA.

Since the PMA service interface just passes a continuous stream of 128-bit SD-FEC codewords from the PCS to PMA, with no other information, the PMA has no knowledge of the 400GBASE-ZR frame used within PCS. As a result, I suggest that this sentence is deleted.

SuggestedRemedy

Delete the text 'Prior to polarization distribution and transmission frame construction, each frame consists of 10 976 16 DP-16QAM symbols' from the start of the second paragraph of subclause 155.3.3.1.2.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #201

C/ 155	SC 155.3.3.1.2	P 6	0	L 1	# 264	
Law, David		Hewle	ett Packard I	Enterprise		
Comment Typ	e T	Comment Status	D			bucket

The last paragraph of subclause 155.3.3.1.2 'Symbol interleaving' says 'The output stream is mapped, with the transmission order of left to right, into the next available frame payload location (see 155.3.3.1.3).'. It isn't clear what 'left to right' is about, if it is to Figure 155–10 'Eight-way Hamming code interleaver' I'm not sure that is a complete description. Instead, for Figure 155–10, isn't it 'bottom to top from left to right'?

SuggestedRemedy

Suggest the text '... the transmission order of left to right, into the ...' is changed to read '... the transmission order of from bottom to top, left to right (see Figure 155-10), into the ...'.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE

Change: "The output stream is mapped, with the transmission order of left to right, into the next available frame payload location (see 155.3.3.1.3)." To: "The output stream is mapped, with the transmission order bottom to top, left to right (see Figure 155-10), into the next available frame payload location (see 155.3.3.1.3)."

Cl 155	SC 155.3.3.1.2	P 60)	L 27	# 265	
Law, David		Hewle	ett Packard E	Enterprise	9	
Comment Ty	pe T	Comment Status	D		buck	et

Subclause 155.2.5.11 'Hamming SD-FEC encoder' says '... results in 10 796 128-bit SD-FEC codewords.' and 'The 128-bit SD-FEC codewords are sent to the 400GBASE-ZR PMA sublayer ...'. Subclause 155.3.3.1.2 'Symbol interleaving' says 'The symbol interleaver performs an 8-way interleaving of groups of sixteen symbols mapped from SD-FEC codewords as illustrated in Figure 155–10.'. I, therefore, believe the reference to ' Hamming code' should be changed to 'SD-FEC codeword' in the title of Figure 155–10.

SuggestedRemedy

Suggest that the title of Figure 155–10 be changed from 'Eight-way Hamming code interleaver' to 'Eight-way SD-FEC codeword interleaver'.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

The interleaving is of DP-16QAM symbols. Change the title of Figure 115-10 to: "Eight-way DP-16QAM symbol interleaver"

C/ 155 SC 155.3.3.1.2 Page 29 of 43 5/5/2023 10:44:35 AM

C/ 155	SC 155.3.3	.1.3	P 60	L 32	# 79		C/ 155	SC 15	55.3.3.1.3	3	P 60	L 39	# 267	
Ran, Adee	е		Cisco				Law, Davi	d			Hewlett Pack	ard Enterprise		
Comment	Type E	Comment	Status D			bucket	Comment	Туре	E	Comment	Status D			bucket
"For e	ach polarizatior	n, the stream of	SD-FEC inter	eaved symbols a	e assembled"					raph of subc should be e		1.3 includes the f	irst use of TS, PS	, and
Singul	lar/plural misma	atch					Suggested	IRemedy						
Suggested	dRemedy						Sugge	st that the	e text '	an 11-symb	ool TS (ts<0:10	>), 116 PS symbo	ols [P0,, P115],	a 22-
Either	change "the st	ream of" to "the	" or change "a	re" to "is".				· ·		,	0	read ' an 11-sy	, 0	
Proposed	Response	Response S	Status W							>), 116 Pilot FAW) (faw<) symbols [P0,	, P115], a 22-sym	ibol
PROP	POSED ACCEP	T IN PRINCIPL	E.				Proposed	Response	e	Response	Status W			
Chanç	ge "are" to "is"						PROP	OSED A		N PRINCIPI				
C/ 155	SC 155.3.3	.1.3	P 60	L 32	# 266		Resolv	/e using t	he respo	onse to comr	ment #202			
Law, Davie	d		Hewlett Pack	kard Enterprise	-									
Comment	Туре Т	Comment	Status D			bucket								
'For ea frame and de 'SD-FE symbo	ach polarization format suitable ecoding by the EC interleaved	i, the stream of for transmissio 400GBASE-ZR symbols', instea 3.1.2 'Symbol in	SD-FEC interl n over the 400 PMA receive p ad I believe it is	emission multi-frar eaved symbols ar IGBASE-ZR medi bath.'. I don't belie s a stream of 'inte t says 'The DP-16	e assembled in um and for rece ve it is a strear rleaved DP-160	to a eption n of QAM								
Suggested	dRemedy													
assem	nbled into a fran	ne format suital	ole for transmi	eam of SD-FEC ir ssion' is change to a frame format	ed to read 'The									

polarization, suitable for transmission ...'.

Response Status W

Proposed Response

PROPOSED ACCEPT.

C/ 155 SC 155.3.3.1.3

C/ 155	SC	155.3.3.1.3	P 60)	L 39	#	202	
Huber, Th	omas		Nokia					
Comment	Түре	т	Comment Status	D				bucket

The description of the frame and mutiliframe structure would be more clear if the abbreviations for the different types of symbols were spelled out, and if the organization was modified such that the overall structure of the frame is described before the details of the first vs 2nd through 49th frames are described.

SuggestedRemedy

Replace the second, third, and fourth paragraphs with this text:

Each frame is based on 116 sets of 32 symbols. The first symbol of each set is a pilot symbol [P0, P1, ..., P115]. Each frame begins with an 11-symbol training sequence (TS, ts<0:10>). ts<0> is this also P0.

The first frame includes a 22-symbol Frame Alignment Word (FAW, faw<0:21>), 76 reserved symbols (rsvd<0:75>), and 3488 payload symbols (m<0:3487>). The reserved symbols are randomized and are ignored by the receiver. The payload symbols occupy the last 16 symbols before P4 and all symbols between P4 and P115.

Frames 2 through 49 do not have the FAW or reserved symbols, and therefore carry 1586 payload symbols, occupying the last 21 symbols between P0 and P1, and all symbols between P1 and P115.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Change the second, third and fourth paragraphs to (see also comments #267 and #268):"Each frame is based on 116 sets of 32 symbols. The first symbol of each set is a pilot symbol [P0, P1, ..., P115]. Each frame begins with an 11-symbol training sequence (TS, ts<0:10>). The first symbol of each TS has the same value as the corresponding pilot symbol for each polarization and is counted as a pilot symbol. The first frame includes a 22-symbol Frame Alignment Word (FAW, faw<0:21>), 76 reserved symbols are randomized and are ignored by the receiver. The payload symbols occupy the last 16 symbols before P4 and all symbols between P4 and P115.Frames 2 through 49 do not have the FAW or reserved symbols, and therefore carry 1586 payload symbols, occupying the last 21 symbols between P0 and P1, and all symbols between P1 and P115."

C/ 155	SC 155.3.3.1.3	Р 6	0	L 41	# 20	68
Law, David		Hewl	ett Packard E	nterprise		
Comment Ty	pe T	Comment Status	D			bucket

The second paragraph of subclause 155.3.3.1.3 says 'There are 16 symbols after P3 ...'. According to Figure 155–11 there are 31 symbols after P3, 15 reserved symbols (rsvd<61:75>) followed by 16 payload symbols (m<0:15>).

SuggestedRemedy

Suggest the text 'There are 16 symbols after P3 ...' should be changed to read 'There are 16 payload symbols, preceded by 15 reserved symbols, after P3 ...'. Similarly, suggest that the text 'There are 21 symbols after P0 and ...' on line 45 is changed to read 'There are 21 payload symbols, preceded by 10 Training symbols, after P0 and ...'.

Proposed Response	Response Status	w
PROPOSED ACCEPT	IN PRINCIPLE.	

Resolve using the response to comment #202

C/ 155	SC 155.3.3.1.4	P 61	L 31	# 269
Law, David		Hewlett Pac	ckard Enterprise	
Comment Ty	pe E	Comment Status D		bucket

Suggest that the text '... the outer constellation symbol values ...' (page 61, line 31) is changed to read '... the outer four points of the 16QAM constellation symbol values ...' and the text 'The symbols values are set at the outer four points of the 16QAM constellation ...' (page 62, line 29) is changed to read 'It is made up of the outer four points of the 16QAM constellation symbol values and ...' to align similar text in these two locations.

SuggestedRemedy

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 155	SC	155.3.3.1.4	P 6	1 <i>L</i>	_ 31	# 270	
Law, David Hewlett Packard Enterprise							
Comment T	ype	Е	Comment Status	D			bucket
l don't t	hink t	the term DC I	balance needs to l	be qualified by	'zero'.		

SuggestedRemedy

Suggest the text '... and designed for zero DC balance.' should be '... and is designed for DC balance.'

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 155 SC 155.3.3.1.	7 P 65	L 3	# 272	C/ 155	SC	155.3.3.1.7	P 65	L 3	# 109
Law, David	Hewlett Pack	ard Enterprise		Bruckman	, Leon		Huawei		
Comment Type TR	Comment Status D		bucket	Comment	Туре	Е	Comment Status D		bucke
[sic] shall be converted	16QAM encode' says 'The tw to four analog signals'. I b	elieve that the 'tv	vo polarization symbol	"The tv "strear		arization syr	mbol streams stream s	hall be converted"	unnecesary word
this process isn't specifi	y serialising the two multi-fr ed.	ames, one for ea	ch polarization, but	Suggestea	IRemed	dy			
SuggestedRemedy							ization symbol streams ams shall be converted		onverted" with: "The two
Suggest that:				Proposed		•	Response Status W		
[1] The text 'The two not	arization symbol streams st	ream shall be cor	overted to four analog	-	•	ACCEPT.			
signals' in subclause	155.3.3.1.7 should be chang	ged to read 'Two	polarization symbol						
	eir respective multi-frames,	shall be converte	ed to four analog	C/ 155		155.3.3.1.7		L 5	# 273
signals' [2] A new last paragraph should be added to the end of subclause 155.3.3.1.3					d			Packard Enterprise	
Transmission multi-frame and frame' that reads 'Each multi-frame shall be serialised into a stream of 16QAM symbols for transmission. Relative to Figure 155-11, the frames shall be				Comment Typo.	Туре	E	Comment Status D		bucke
	oottom, and the symbols of e ly of symbols into multi-fran			Suggestea	Remed	dy			
	Irawn to the right of Figure 1						D:IS_UNITDATA.reque .request primitive.'.	st primitives.' shou	ld be changed to read '
frame 48, drop-down, ar side of frame 48. The ar	Irawn at the bottom of Figur nd then turn 90 degrees to th row should be annotated as	ne right, ending b 'Symbols transm	elow the righthand hitted left to right'.	Proposed PROP		nse ACCEPT.	Response Status W	,	
and [4].	2p1_comments_David_Law	/_figure_155-1.jp	g for illustration of [3]	C/ 155	SC	155.3.3.1.8	B P 65	L 9	# 110
Proposed Response	Response Status W			Bruckman	, Leon		Huawei		
PROPOSED ACCEPT I	N PRINCIPLE.			Comment	Туре	т	Comment Status D		bucke
Implement suggested re	medy with editorial license			There	is an e	ntry in the I	PICS to test this function	on, but there is no '	'shall"
	-		" [2=1	Suggestea	Remea	dy			
C/ 155 SC 155.3.3.1.7		L 3	# 271	Replac	ce: "are	e passed" w	ith: "shall be passed"		
Law, David		ard Enterprise		Proposed	Respor	nse	Response Status W	,	
Comment Type E Typo	Comment Status D		bucket	PROP	OSED	ACCEPT.			
SuggestedRemedy									
Change ' symbol strea	ms stream shall' to read	' symbol strean	ns shall'						
Proposed Response PROPOSED ACCEPT.	Response Status W								

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: Clause, Subclause, page, line

C/ 155 SC 155.3.3.1.8 Page 32 of 43 5/5/2023 10:44:35 AM

C/ 155 SC 155.3.3.	1.8 <i>P</i> 65	L 9	# 274	C/ 155 SC 155.4.2	P 68	L 45	# 112
_aw, David	Hewlett Pack	kard Enterprise		Bruckman, Leon	Huawei		
Comment Type E Suggest a shall is ado	Comment Status D ded to subclause 155.3.3.1.8.		bucket	Comment Type TR There is no low powe	Comment Status D r mode		bucke
SuggestedRemedy				SuggestedRemedy			
any of the mappings i	'The four analog signals XI, X n Table 155–7.' should be ch	anged to read 'The	e four analog signals	Replace: "during pow mode." with: "and du	ver on, and when the MDIO ha ring power on."	as put the PMA su	ıblayer into low power
	nall be passed to using one	e of the mappings i	in Table 155-7.1.	Proposed Response	Response Status W		
Proposed Response PROPOSED ACCEP	Response Status W			PROPOSED ACCEF	Т.		
PROPOSED ACCEP	1.			C/ 155 SC 155.4.2	P 68	L 48	# 221
C/ 155 SC 155.3.3.	1.8 <i>P</i> 65	L 14	# 111	Brown, Matt	Huawei		
Bruckman, Leon	Huawei			Comment Type TR	Comment Status D		bucket
Comment Type T	Comment Status D		bucket	EEE is not supported	for 400GBASE-ZR.		
Table 155-7 title refer	s to physical lanes, while the	clause talks about	t analog signals	SuggestedRemedy			
SuggestedRemedy				Delete: ", and when t	he MDIO has put the PCS sul	blayer into low-po	wer mode."
Replace: "Allowed syr	mbol mapping to physical lane	es" with: "Allowed	symbol mapping to	Delete: ", and when t Proposed Response	•	blayer into low-po	wer mode."
Replace: "Allowed syn analog signals"		es" with: "Allowed	symbol mapping to		Response Status W	blayer into low-po	wer mode."
Replace: "Allowed syn analog signals" Proposed Response	Response Status W	es" with: "Allowed	symbol mapping to	Proposed Response PROPOSED ACCEF	Response Status W T.		
Replace: "Allowed syn analog signals"	Response Status W	es" with: "Allowed	symbol mapping to	Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2	Response Status W T. P 68	blayer into low-po	wer mode." # [<u>1</u> 13
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP	Response Status W	es" with: "Allowed	symbol mapping to # 275	Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2 Bruckman, Leon	Response Status W T. P 68 Huawei		# [<u>113</u>
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2	Response Status W T. P 68			Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR	Response Status W T. P 68 Huawei Comment Status D		
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David	Response Status W T. P 68	L 36		Proposed Response PROPOSED ACCER Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe	Response Status W T. P 68 Huawei Comment Status D		# [<u>113</u>
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David Comment Type E	Response Status W T. P 68 Hewlett Pacl	<i>L</i> 36 kard Enterprise	# 275	Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy	Response Status W T. P 68 Huawei Comment Status D r mode	L 48	# [<u>113</u> bucket
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David Comment Type E Since for faws_lock <x [1] The two instances</x 	Response Status W T. P 68 Hewlett Pack Comment Status D (>, x = 0:1 (see page 69, lineof ' true for all x' should be	<i>L</i> 36 kard Enterprise 12) suggest that: be changed to rea	# 275 bucket	Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy	Response Status W T. P 68 Huawei Comment Status D or mode	L 48	# [<u>113</u> bucket
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David Comment Type E Since for faws_lock <x [1] The two instances [2] The one instance of</x 	Response Status W T. P 68 Hewlett Pack Comment Status D (>, x = 0:1 (see page 69, line	<i>L</i> 36 kard Enterprise 12) suggest that: be changed to rea	# 275 bucket	Proposed Response PROPOSED ACCEF Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy Replace: "during pow	Response Status W T. P 68 Huawei Comment Status D or mode	L 48	# [<u>113</u> bucket
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David Comment Type E Since for faws_lock <x [1] The two instances [2] The one instance of SuggestedRemedy</x 	Response Status W T. P 68 Hewlett Pack Comment Status D (>, x = 0:1 (see page 69, lineof ' true for all x' should be	<i>L</i> 36 kard Enterprise 12) suggest that: be changed to rea	# 275 bucket	Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy Replace: "during pow mode." with: "and du	Response Status W T. P 68 Huawei Comment Status D or mode er on, and when the MDIO ha ring power on." Response Status W	L 48	# [<u>113</u> bucket
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Law, David Comment Type E Since for faws_lock <x [1] The two instances [2] The one instance of SuggestedRemedy See comment.</x 	Response Status W T. P 68 Hewlett Pack Comment Status D <pre>k>, x = 0:1 (see page 69, line of ' true for all x' should be char of ' for any x.' should be char</pre>	<i>L</i> 36 kard Enterprise 12) suggest that: be changed to rea	# 275 bucket	Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy Replace: "during pow mode." with: "and du Proposed Response	Response Status W T. P 68 Huawei Comment Status D or mode er on, and when the MDIO ha ring power on." Response Status W	L 48	# [<u>113</u> bucket
Replace: "Allowed syn analog signals" Proposed Response PROPOSED ACCEP C/ 155 SC 155.4.2 Law, David Comment Type E Since for faws_lock <x [1] The two instances [2] The one instance of SuggestedRemedy</x 	Response Status W T. P 68 Hewlett Pack Comment Status D (>, x = 0:1 (see page 69, line of ' for any x.' should be cha Response Status W	<i>L</i> 36 kard Enterprise 12) suggest that: be changed to rea	# 275 bucket	Proposed Response PROPOSED ACCEP Cl 155 SC 155.4.2 Bruckman, Leon Comment Type TR There is no low powe SuggestedRemedy Replace: "during pow mode." with: "and du Proposed Response	Response Status W T. P 68 Huawei Comment Status D or mode er on, and when the MDIO ha ring power on." Response Status W	L 48	# [<u>113</u> bucket

	P 70	L 12	# 222	C/ 155	SC 155.5.1	P 76	L 12	# 82
Brown, Matt	Huawei			Ran, Adee		Cisco		
Comment Type E	Comment Status D		bucket	Comment Ty	pe E	Comment Status D		bucke
The word "can" in this	context is deprecated per sty	/le guide.				is a 32-bit counter"		
SuggestedRemedy	:		and the state of the state of		" is used in c in 155.5.2.	lause 45; within the PCS the	se are variables.	
	riable that is set to true wher state diagram has been com ested."			<i>SuggestedRe</i> Change	-	e register" to "This variable",	in both places.	
	e that is set to true when the am has been completed and be tested "			Proposed Re PROPOS	,	Response Status W T IN PRINCIPLE.		
Proposed Response PROPOSED ACCEPT C/ 155 SC 155.4.2	Response Status W	L 12	# 219	FEC_cor register i	rrected_cw_c	he variable register is a 32-t ounter ia a 32-bit counter" a unter" to: "The FEC_uncorre clause 153.2.5	nd in 155.5.2 char	ige: "The variable
Brown, Matt	Huawei			C/ 155	SC 155.6	P 74	L 18	# 230
Comment Type E	Comment Status D		bucket	Brown, Matt		Huawei		
The word "can" in this	context is deprecated per sty	/le guide.		Comment Ty		Comment Status D		bucke
SuggestedRemedy				,	quanta = 51			bucke
Change "The JC1-JC2 fields can change"	field information is also prote	ected by limits on	how the JC1-JC2	2400000	BT is 4687.	5 pause_quanta normally specified in integer	number of pause	_quanta.
To: "Change "The JC1	JC2 field information is also	[,] protected by limi	ts on how the JC1-JC2	SuggestedRe	emedy			
fielde might chenge"	Deserves Ofster 197					T" to "2 400 256 BT" "6000.64 ns"		
fields might change" Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉							
0 0				Proposed Re	esponse	Response Status 🛛 🛛 🛛 🛛 🛛 🖤		
Proposed Response PROPOSED ACCEPT		tor assumed that	commenter refers to	•	esponse SED REJEC ⁻	,		

C/ 155 SC 155.7.3	P 78	L 10	# 276	C/ 155A SC 155A.	1 <i>P</i> 114	L 30	# 156
Law, David	Hewlett Pack	ard Enterprise		D'Ambrosia, John	Futurewei,	U.S. Subsidiary o	of Huawei
Comment Type E Suggest that the 'Sub	Comment Status D clause' entry for PICS item DC	C should be 155.6.	bucket		Comment Status D sentially the same figure as 1 ed as MMD 10 and PMA (4:16		
SuggestedRemedy See comment.				(<i>, ,</i>	hich uses MMD 9 and MMD 8	,	
Proposed Response PROPOSED ACCEP ⁻	Response Status W T IN PRINCIPLE.			Change the noted N	/MDs in Figu 155A-1 to matcl	h the same MMDs	in Fig 118-2.
Implement suggested in the same row	remedy. Also delete word "in'	" from the "Value/0	Comment" colum text	Proposed Response PROPOSED ACCE	Response Status W PT IN PRINCIPLE.		
<i>Cl</i> 155 SC 155.7.4 .	1 <i>P</i> 78	L 14	# 224	In Figure 155A-1 ch in IEEE Std 802.3-2	ange MMD10 to MMD9 and N 2022.	MMD9 to MMD 8 to	o align with Figure 118-2
Brown, Matt	Huawei			C/ 156 SC 156.5	2 P 88	L 25	# 115
Comment Type E	Comment Status D		bucket	Bruckman, Leon	Huawei		
The word "can" in this	context is deprecated per sty	le guide.		Comment Type E	Comment Status D		bucket
SuggestedRemedy				Strongo toxt: "and a	lelivered to the MDI"		
Reference to the subc	clause 155.2.6.7.2 is sufficient	t. Delete the text in	the value/comment	SuggestedRemedy			
Reference to the subc		t. Delete the text in	the value/comment	SuggestedRemedy	ered to the MDI" with: "and de	eliver them to the N	MDI"
Reference to the subc	Response Status W	t. Delete the text in	the value/comment	SuggestedRemedy Replace: "and deliv Proposed Response	ered to the MDI" with: "and de Response Status W	liver them to the N	MDI"
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP	Response Status W T.	t. Delete the text in	the value/comment # 114	SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE	ered to the MDI" with: "and de <i>Response Status</i> W PT.		
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP C/ 155 SC 155.7.4.	Response Status W T.			SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE CI 156 SC 156.6	ered to the MDI" with: "and de <i>Response Status</i> W PT. <i>P</i> 89	eliver them to the N	MDI" # [<u>226</u>
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP C/ 155 SC 155.7.4. Bruckman, Leon Comment Type E	Response Status W T. 1 P 78 Huawei Comment Status D			SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE C/ 156 SC 156.6 Brown, Matt	ered to the MDI" with: "and de <i>Response Status</i> W PT. <i>P</i> 89 Huawei		# 226
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP C/ 155 SC 155.7.4. Bruckman, Leon	Response Status W T. 1 P 78 Huawei Comment Status D		# 114	SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE Cl 156 SC 156.6 Brown, Matt Comment Type E	ered to the MDI" with: "and de <i>Response Status</i> W PT. P 89 Huawei <i>Comment Status</i> D	L 41	# 226 bucket
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP C/ 155 SC 155.7.4. Bruckman, Leon Comment Type E Make text consistent of SuggestedRemedy	Response Status W T. 1 P 78 Huawei Comment Status D with clause	L 50	# 114 bucket	SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE Cl 156 SC 156.6 Brown, Matt Comment Type E	ered to the MDI" with: "and de <i>Response Status</i> W PT. <i>P</i> 89 Huawei <i>Comment Status</i> D his context is deprecated per s	L 41	# 226 bucket
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP Cl 155 SC 155.7.4. Bruckman, Leon Comment Type E Make text consistent to SuggestedRemedy Replace: "Symbol ma	Response Status W T. 1 P 78 Huawei Comment Status D with clause	L 50	# 114 bucket	SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE Cl 156 SC 156.6 Brown, Matt Comment Type E The word "can" in th	ered to the MDI" with: "and de <i>Response Status</i> W PT. <i>P</i> 89 Huawei <i>Comment Status</i> D his context is deprecated per s	L 41	# 226 bucket
Reference to the subc cell for FDD. Proposed Response PROPOSED ACCEP Cl 155 SC 155.7.4. Bruckman, Leon Comment Type E Make text consistent of SuggestedRemedy	Response Status W T. 1 P 78 Huawei Comment Status D with clause pping to physical signals" with Response Status W	L 50	# 114 bucket	SuggestedRemedy Replace: "and deliv Proposed Response PROPOSED ACCE Cl 156 SC 156.6 Brown, Matt Comment Type E The word "can" in the meant by "this PME SuggestedRemedy Change: "By using applications, as Ion To: "By using this not	ered to the MDI" with: "and de <i>Response Status</i> W PT. <i>P</i> 89 Huawei <i>Comment Status</i> D his context is deprecated per s	L 41 style guide. Also, i pe can support a v ecified in 156.8 are 2MD supports a wi	# 226 bucket it is not clear what is wide range of e met." ide range of

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: Clause, Subclause, page, line

C/ 156 SC 156.6

Comment Type E Comment Status D bucket Comment Type Comment Type E Comment Status D bucket Comment Type Comment Type Comment Type E Suggested Remedy Suggested Remedy Suggested Response Processon Suggested Response Processon Suggested Response Response Suggested Response Processon Suggested Response Comment Type E Comment Type Comment Type E Comment Type	'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei omment Type ER Comment Status D buck Parameters Optical center frequency, side-mode suppression, average channel output power, transmit output power stability, and transmit output power absolute accuracy are all noted as using pattern "valid 400GBASE-R signal, 5". It is believed the user has a choice to use either pattern, which would be better noted with an or between the two noted patterns. The current denotation doesnt imply a choice between patterns. uggestedRemedy In Table 156-11, change all instances of "valid 400GBASE-R signal, 5" to "5 or valid 400GBASE-R signal" roposed Response Response Status W
The word "can" in this context is deprecated per style guide. SuggestedRemedy Change "The 400GBASE-ZR PMD is specified on the basis that it can be connected" To: "The 400GBASE-ZR PMD is specified on the basis that it may be connected" Proposed Response Response Status W PROPOSED ACCEPT. C/ 156 SC 156.6 P 91 L 8 # 282 Pro Dawe, Piers Nvidia Comment Type ER Comment Status D bucket The house style is to put the units in ordinary round brackets, as in the style manual, Annex B, section 4.3, and a huge number of tables in 802.3 such as Table 116-7 in this draft. SuggestedRemedy Change the square brackets to the usual round brackets. Also in Table 156-12. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Parameters Optical center frequency, side-mode suppression, average channel output power, transmit output power stability, and transmit output power absolute accuracy are all noted as using pattern "valid 400GBASE-R signal, 5". It is believed the user has a choice to use either pattern, which would be better noted with an or between the two noted patterns. The current denotation doesnt imply a choice between patterns. <i>UggestedRemedy</i> In Table 156-11, change all instances of "valid 400GBASE-R signal, 5" to "5 or valid 400GBASE-R signal"
To: "The 400GBASE-ZR PMD is specified on the basis that it may be connected" Proposed Response Response Status Sug PROPOSED ACCEPT.	patterns. The current denotation doesnt imply a choice between patterns. <i>uggestedRemedy</i> In Table 156-11, change all instances of "valid 400GBASE-R signal, 5" to "5 or valid 400GBASE-R signal"
PROPOSED ACCEPT. Cl 156 SC 156.6 P 91 L 8 282 Pro Dawe, Piers Nvidia Dawe, Piers bucket Dawe, Piers Nvidia Comment Type ER Comment Status D bucket Dawe, Piers Comment Status D Comment Status Comment Status D Comment Status Co	In Table 156-11, change all instances of "valid 400GBASE-R signal, 5" to "5 or valid 400GBASE-R signal"
Cl 156 SC 156.6 P 91 L 8 # 282 Pro Dawe, Piers Nvidia bucket Comment Type ER Comment Status D bucket The house style is to put the units in ordinary round brackets, as in the style manual, Annex B, section 4.3, and a huge number of tables in 802.3 such as Table 116-7 in this draft. Cl SuggestedRemedy Change the square brackets to the usual round brackets. Also in Table 156-12. Bru Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. State	400GBASE-R signal"
Dawe, Piers Nvidia Comment Type ER Comment Status D bucket The house style is to put the units in ordinary round brackets, as in the style manual, Annex B, section 4.3, and a huge number of tables in 802.3 such as Table 116-7 in this draft.	roposed Response Response Status W
Comment Type ER Comment Status D bucket The house style is to put the units in ordinary round brackets, as in the style manual, Annex B, section 4.3, and a huge number of tables in 802.3 such as Table 116-7 in this draft. CI SuggestedRemedy Change the square brackets to the usual round brackets. Also in Table 156-12. Bru Control Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. D	
The house style is to put the units in ordinary round brackets, as in the style manual, Annex B, section 4.3, and a huge number of tables in 802.3 such as Table 116-7 in this draft. SuggestedRemedy Change the square brackets to the usual round brackets. Also in Table 156-12. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy C/ Change the square brackets to the usual round brackets. Also in Table 156-12. Bru Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Col	In Table 156-11 change "valid 400GBASE-ZR signal, 5" to "5 or valid 400GBASE-ZR signal"
Change the square brackets to the usual round brackets. Also in Table 156-12.	156 SC 156.9.2 P 98 L 41 # 117
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	ruckman, Leon Huawei
	"The transmitter is modulated using the test pattern defined in Table 156–10". Table 156- 10 defines only test pattern 5, but in Table 156-11 these two parameters can be tested using either test pattern 5 or a valid 400GBASE-ZR signal.
Change the "[]" brackets to "()" brackets in Tables 156-4 and 156-12.	uggestedRemedy
C/ 156 SC 156.7.1 P 94 L 15 # 143	Change the reference to Table 156-11
Dudek, Mike Marvell Pro Comment Type E Comment Status D bucket	roposed Response Response Status W PROPOSED ACCEPT.
••	156 SC 156.9.2 P 98 L 42 # 153
SuggestedRemedy D'A	'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei
	omment Type TR Comment Status D buck
Proposed Response Response Status W PROPOSED ACCEPT.	Current text is pointing to Table 156-10, which is the summary of test patterns. The test patterns for 156.9.2 are denoted in Table 156-11.
Sug	uggestedRemedy Change Table reference from 156-10 to 156-11.
Pro	roposed Response
	Resolve using the response to comment #117.

C/ 156 SC 156.9.11	P 101	L 36	# 248	C/ 156 SC 156.9.1	11 P 101	L 37	# 88
Maniloff, Eric	Ciena			Ran, Adee	Cisco		
Comment Type E	Comment Status D		bucket	Comment Type E	Comment Status D		bucke
us is used for microseco	nds, instead of µs or micro	seconds			I-Q offset per polarization is the nits given in Table 156–6"	e maximum value	e per polarization and
SuggestedRemedy				shall be within the lif	nits given in Table 150–6		
change us to µs				Please separate par	ameter definition from normativ	/e statement.	
Proposed Response PROPOSED ACCEPT.	Response Status W			Similarly in 156.9.12			
				SuggestedRemedy			
C/ 156 SC 156.9.11	P 101	L 36	# 86	Change to	Intaneous I-Q offset per polariz	ation shall be wit	hin the limits given in
Ran, Adee	Cisco			Table 156–6", in a se			init the infine given in
comment Type E	Comment Status D		bucket	Apply similarly in 15	6 9 12		
offsett				Proposed Response	Response Status W		
uggestedRemedy offset				PROPOSED ACCER	,		
Proposed Response PROPOSED ACCEPT.	Response Status W			within the limits given maximum value per Qmean2)/Psignal] wi maximum mean I-Q 6.The mean I-Q offse	"The maximum instantaneous n in Table 156-6. The instantane polarization and is calculated a ith a measurement interval of 1 offset per polarization shall be et per polarization is the mean set = 10log10[(Imean2 + Qmea	eous I-Q offset pe as I-Q offset = 10 us."Change 156 within the limits value per polariza	r polarization is the log10[(Imean2 + .9.12 to "The given in Table 156-
				C/ 156 SC 156.9.1	13 <i>P</i> 101	L 48	# 119
				Bruckman, Leon	Huawei		
				Comment Type TR	Comment Status D	section	buck
				SuggestedRemedy	agraph add: "and shall be with		n in Table 156–6"
				Proposed Response PROPOSED ACCER	Response Status W	-	

C/ 156 SC 156.9.14	P 102	L 3	# 120	C/ 156 SC 156.9.15	P 102	L 8	# 122
Bruckman, Leon	Huawei			Bruckman, Leon	Huawei		
Comment Type TR Text is not consistent w	Comment Status D vith other subclauses in this	section	bucket	Comment Type TR Text is not consistent with	<i>Comment Status</i> D h other subclauses in this	section	bucket
SuggestedRemedy At the end of the parag	raph add: "and shall be with	in the limits give	n in Table 156–6"	<i>SuggestedRemedy</i> At the end of the paragra	ph add: "and shall be with	in the limits give	n in Table 156–6"
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCEPT.	Response Status W		
At the end of the first se	entence add "and shall be w	ithin the limits gi	ven in Table 156-6"	C/ 156 SC 156.9.19	P 102	L 41	# 124
C/ 156 SC 156.9.14	P 102	L 4	# 249	Bruckman, Leon	Huawei		
Maniloff, Eric	Ciena			Comment Type TR	Comment Status D		bucket
Comment Type E	Comment Status D		bucket	Reference to the value is	missing		
Period in middle of sen	tence			SuggestedRemedy			
SuggestedRemedy	red" to "signal, measured"			At the beginning of the se limits given in Table 156-	ection add: "The Transmit -6."	output power sta	bility shall be within the
	-			Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT.			
C/ 156 SC 156.9.15	P 102	L 6	# 121	C/ 156 SC 156.9.20	P 102	L 51	# 250
Bruckman, Leon	Huawei	20	π 121	Maniloff, Eric	Ciena		
,			huslat	Comment Type T	Comment Status D		bucket
Comment Type E Typeo"I-I-Q"	Comment Status D		bucket	Transmit Power should b provisionable powers.	e within the stated range v	when set to High	est or Lowest
SuggestedRemedy				SuggestedRemedy			
Replace "I-I-Q" with "I-0	ຊ"			Change highest to lowest	t or highest		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		

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: Clause, Subclause, page, line

C/ 156 SC 156.9.20 Page 38 of 43 5/5/2023 10:44:35 AM

C/ 156 SC 156.9.20	P 102	L 51	# 125	C/ 156 SC 156.9.2	2 <i>P</i> 103	6 L 12	# 128
Bruckman, Leon	Huawei			Bruckman, Leon	Huawei		
Comment Type T Is "must" used ?	Comment Status D		bucket	Comment Type T Is "must" used ?	Comment Status)	bucket
SuggestedRemedy Replace "must" with "s	shall"			SuggestedRemedy Replace "must" with	"shall"		
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEP	Response Status V	N	
	paragraph add "and shall be v change "the average transm	•		o 1	pecifies the minimum ave adjustable range of trans	•	

At the end of the first paragraph add and shall be within the limits given in Table 156-6. In the second paragraph change "the average transmit output power must be within the range defined by the min and max values of average channel output power as specified in Table 156–6." to "the average transmit output power shall be within the limits given in Table 156–6". With editorial license.

C/ 156	SC 156.9.21	P 1	03	L 7	# 127
Bruckman	, Leon	Huav	vei		
<i>Comment</i> Is "mu	<i>Type</i> T st" used ?	Comment Status	D		bucket
Suggested Replac	<i>IRemedy</i> ce "must" with "s	hall"			
Proposed PROP	Response OSED ACCEPT	Response Status IN PRINCIPLE.	w		

At the end of the first paragraph add "and shall be within the limits given in Table 156-6". In the second paragraph change "the average transmit output power must be within the range defined by the min and max values of average channel output power as specified in Table 156–6." to "the average transmit output power shall be within the limits given in Table 156–6"

C/ 156 SC	156.9.23	P 1	03	L 18	# 129	
Bruckman, Leon		Huav	vei			
Comment Type	TR	Comment Status	D			bucket

minimum average channel power for the highest setting of the adjustable range of transmit

Text is not consistent with other subclauses in this section

output power and shall be within the limits given Table 156-6"

SuggestedRemedy

At the end of the paragraph add: "and shall be within the limits given in Table 156–6"

Proposed Response	Response Status	w
PROPOSED ACCEPT.		

C/ 156	SC 156.9.26	P 103	L 38	# 144
Dudek, M	ike	Marvell		
Comment Typo.	Type E	Comment Status D		bucket
Suggested Delete	dRemedy e the duplicate "wh	ile maintaining a"		

Proposed Response Response Status W

PROPOSED ACCEPT.

	P 103	L 38	# 130	C/ 156 SC 156.9.29	P 104	L 1	# 89
Bruckman, Leon	Huawei			Ran, Adee	Cisco		
Comment Type E Redundant text	Comment Status D		bucket	Comment Type E Left margin in this page	Comment Status D e is larger than in other page	S.	bucke
SuggestedRemedy Delete : "a while mainta	ining"			<i>SuggestedRemedy</i> Fix it			
Proposed Response PROPOSED ACCEPT	Response Status WIIN PRINCIPLE.			Proposed Response PROPOSED ACCEPT.	Response Status W		
Resolve using the respo	onse to comment #144			C/ 156 SC 156.9.32	P 104	L 21	# 147
C/ 156 SC 156.9.26	P 103	L 38	# 228	Dudek, Mike	Marvell		
Brown, Matt	Huawei			Comment Type E	Comment Status D		bucke
Comment Type E	Comment Status D		bucket	Туро.			
The word "can" in this c	context is deprecated per sty	le guide.		SuggestedRemedy			
		-		insert "in" between "spe	cified" and "Table"		
SuggestedRemedv				moort in between opt			
Change: "Receiver OSI tolerate while" To: "Receiver OSNR to	NR tolerance is defined as m lerance is defined as minimu			Proposed Response PROPOSED ACCEPT.	Response Status W		
tolerate while" To: "Receiver OSNR to while"	lerance is defined as minimu			Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32	Response Status W P 104	L 21	# 132
Change: "Receiver OSI tolerate while" To: "Receiver OSNR to while" Proposed Response	lerance is defined as minimu Response Status W			Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon	Response Status W P 104 Huawei	L 21	
Change: "Receiver OSI tolerate while" To: "Receiver OSNR to while"	lerance is defined as minimu Response Status W			Proposed Response PROPOSED ACCEPT. C/ 156 SC 156.9.32 Bruckman, Leon Comment Type T	Response Status W P 104 Huawei Comment Status D	L 21	
Change: "Receiver OSN tolerate while" To: "Receiver OSNR to while" Proposed Response PROPOSED ACCEPT.	lerance is defined as minimu Response Status W			Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon Comment Type T A "shall" seems to be n	Response Status W P 104 Huawei Comment Status D	L 21	
Change: "Receiver OSI tolerate while" To: "Receiver OSNR to while" Proposed Response PROPOSED ACCEPT.	lerance is defined as minimu Response Status W	um OSNR that th	ne receiver tolerates	Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon Comment Type T A "shall" seems to be n SuggestedRemedy	Response Status W P 104 Huawei Comment Status D nissing		bucke
Change: "Receiver OSN tolerate while" To: "Receiver OSNR to while" Proposed Response PROPOSED ACCEPT. C/ 156 SC 156.9.27 Bruckman, Leon Comment Type TR	lerance is defined as minimu Response Status W P 103 Huawei Comment Status D	um OSNR that th	ne receiver tolerates	Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon Comment Type T A "shall" seems to be n SuggestedRemedy Replace: "the maximun	Response Status W P 104 Huawei Comment Status D	rosstalk is speci	bucke
Change: "Receiver OSN tolerate while" To: "Receiver OSNR to while" Proposed Response PROPOSED ACCEPT. C/ 156 SC 156.9.27 Bruckman, Leon Comment Type TR	lerance is defined as minimu Response Status W P 103 Huawei	um OSNR that th	# 131	Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon Comment Type T A "shall" seems to be n SuggestedRemedy Replace: "the maximum "the maximum allowabl	Response Status W P 104 Huawei Comment Status D hissing n allowable interferometric c e interferometric crosstalk s	rosstalk is speci	bucket
Change: "Receiver OSN tolerate while" To: "Receiver OSNR to while" Proposed Response PROPOSED ACCEPT. C/ 156 SC 156.9.27 Bruckman, Leon Comment Type TR Text is not consistent w SuggestedRemedy	lerance is defined as minimu Response Status W P 103 Huawei Comment Status D	um OSNR that th	the receiver tolerates # <u>131</u> bucket	Proposed Response PROPOSED ACCEPT. Cl 156 SC 156.9.32 Bruckman, Leon Comment Type T A "shall" seems to be n SuggestedRemedy Replace: "the maximun	Response Status W P 104 Huawei Comment Status D hissing n allowable interferometric c e interferometric crosstalk s Response Status W	rosstalk is speci	bucker

C/ 156 SC 156.9.32

C/ 156 SC 156.10.1.2 P 105 L 50	# 133	C/ 156 SC 156.10.1.2.6 P 106 L 30 # 134
Bruckman, Leon Huawei		Bruckman, Leon Huawei
Comment Type E Comment Status D Missing text	bucket	Comment Type E Comment Status D bucke Text is not clear
SuggestedRemedy Replace: "in the following" with: "in the following sections" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		SuggestedRemedy Replace: "The coefficients of the equalizer are searched that minimize the EVMmax value using the signal with additive white Gaussian noise considering the receiver OSNR(min)." with: "The coefficients of the equalizer that minimize the EVMmax value are searched using the signal with additive white Gaussian noise considering the receiver OSNR(min)."
Replace "described in the following" with "described in 156.10.7		Proposed Response Response Status W PROPOSED ACCEPT.
C/ 156 SC 156.10.1.2.4 P 106 L 21	# 290	C/ 156 SC 156.10.1.2.7 P 107 L 26 # 135
Dawe, Piers Nvidia Comment Type E Comment Status D "RRC filter with a beta = 0.2" CuggestedRemedy	bucket	Bruckman, Leon Huawei Comment Type T Comment Status D bucket A "shall" seems to be missing at the end of the section
Say that beta is the roll-off factor, use the Greek letter for beta (comment tools might not like it), and refer to Eq 156-1. roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #90.	Milon i wont use nere, the	SuggestedRemedy At the end of the section add: "EVMmax shall be within the limit given in Table 156–6." Proposed Response Response Status W PROPOSED REJECT.
/ 156 SC 156.10.1.2.4 P 106 L 21	# 90	The shall statement is previously stated in 156.9.10 with "The EVMmax 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".
Ran, Adee Cisco Comment Type E Comment Status D beta SuggestedRemedy Change to the Greek letter Proposed Response Response Status W PROPOSED ACCEPT.	bucket	Cl 156 SC 156.11.2 P 107 L 52 # 148 Dudek, Mike Marvell Marvell
		Proposed Response Response Status W

C/ 156 SC 156.11.2

C/ 156 SC 156.13.3	P 110	L 16	# 277	C/ 156 SC 156.A.3	<i>P</i> 117	L 25	# 252
Law, David	Hewlett Packa	ard Enterprise		Maniloff, Eric	Ciena		
Comment Type E Suggest that the 'Subcla	Comment Status D use' entry for PICS item DC	should be 156.3	bucket	Comment Type T factor 2 should be ou	Comment Status D tside ()^6 term		bucke
SuggestedRemedy See comment.				SuggestedRemedy Update equation			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.		
C/ 156 SC 156.13.4.3	P 112	L 6	# 149	Change "exp[-loge(2)	x(2(f-f0)/B)^6]" to "exp[-loge(2	?)x2((f-f0)/B)^6]".	
Dudek, Mike	Marvell			C/ 156 SC 156.A.3	<i>P</i> 117	L 30	# 253
Comment Type E	Comment Status D		bucket	Maniloff, Eric	Ciena		
The tables provide value	s not definitions.			Comment Type T	Comment Status D		bucke
SuggestedRemedy Change to Per definition	s in 156 0			T is transmission in li	near units		
Proposed Response	Response Status W			SuggestedRemedy	T to indicate line on write		
PROPOSED ACCEPT I	•			0	T to indicate linear units		
In the Value/Comment r	ow of Table 156.13.4.3 chan	ıge to "Per defini	tions in 156.9".	Proposed Response PROPOSED ACCEP	Response Status W		
C/ 156 SC 156.13.4.4	P 112	L 22	# 150	Change "transmission	n loge" to "transmission in line	ear units"	
Dudek, Mike	Marvell			C/ 156A SC 156A.1	P 115	L 15	# 229
Comment Type E	Comment Status D		bucket	Brown, Matt	Huawei		
The tables provide value	s not definitions.			Comment Type E	Comment Status D		bucke
SuggestedRemedy				The word "can" in this	s context is deprecated per sty	yle guide.	
Leave the Values/comm change to "meets requie	ents blank as is done for 14	0.12.4.6 in the ba	ase standard or	SuggestedRemedy			
change to mooto requie	Response Status W				e of this annex to provide exar		omponent
Proposed Response				To: "The purpose of t	n meet the DWDM lack link re his annex to provide examples		nent specifications
Proposed Response PROPOSED ACCEPT I	N PRINCIPLE. nn of Table 156.13.4.4, char			that meet the DWDN	lack link requirements."		

C/ 156A SC 156A.1

C/ 156A SC 1	56A.1	P 115	5 L 15	#	139
Dudek, Mike		Marvell			
Comment Type Typo.	E Comm	ent Status D)		bucket
SuggestedRemedy Change "lack"					
Proposed Respons PROPOSED A	1	nse Status V	N		
C/ 156A SC 1	56A.3	P 117	L 25	#	140
Dudek, Mike		Marvell			
51	E Commission	ent Status D of T)		bucket
SuggestedRemedy fix it.	,				
Proposed Respons PROPOSED A	e Respor	nse Status V CIPLE.	N		
Correct the equ	uation formatting	so T(f) is fully	visible.		

C/ **156A** SC **156A.3**