IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ FM	SC FM	P1	L <b>27</b>	# 585	C/ FM	SC	FM	P11	L <b>53</b>	# 588
Anslow, Pe	ete	Ciena			Anslow, F	Pete		Ciena		
Comment T	Type E	Comment Status D		consent	Comment	Туре	Е	Comment Status D		consent
		all of the amendments assumed by the IEEE 802.3 Chai		t of the P802.3ca draft				y for P802.3cg does not mate	h the latest ver	rsion in P802.3cg D3.2
Suggested	Remedy				Suggeste			copper cable" to: "balanced p	oir of conducto	
802.3c	d-2018, IEEE St	ed by IEEE Std 802.3cb-2018 d 802.3cn-20xx, IEEE Std 80 k, and IEEE Std 802.3ch-20x	2.3cg-20xx, IEE		Proposed	Respor	•	Response Status W		J13
Proposed F		Response Status W			C/ FM	SC	FM	P12	L1	# 589
PROPO	OSED ACCEPT.				Anslow, F	Pete		Ciena		
C/ FM	SC FM	P <b>7</b>	L <b>3</b>	# 586	Comment	Туре	Е	Comment Status D		consent
Anslow, Pe	ete	Ciena			IEEE	Std 802	2.3ca is no	t going to be approved in 201	9. Also, it is no	ot likely to be
Comment T The firs	51	Comment Status <b>D</b> Participants" is not in line wit	h the latest boile	consent	Amen			hould only be added to drafts 3 Chair.	when the assu	umed order has been
Suggested	Remedy				Suggeste	dReme	dy			
	ollowing individua	Is were officers and member		02.3 Working Group at			inge "201x ete "Amen			
		EE P802.3ca Working Group	ballot."		Proposed	Respor	nse	Response Status W		
Proposed F PROP	Response OSED ACCEPT.	Response Status W			PROF	POSED	ACCEPT.			
C/ FM	SC FM	P <b>7</b>	L <b>20</b>	# 587						
Anslow, Pe	ete	Ciena								
Comment 7	Туре Е	Comment Status D		consent						
Task F	Force who are alr	embers should not include th eady listed. s are not as per the latest 802								
Suggested	Remedy									
Remov Change	ve the 8 officers r e the column wid	names from the WG ballot lis Iths to be in accordance with , Elizabeth does not line wra	the latest 802.3	FrameMaker template						
Proposed F	Response	Response Status W								
		•								

PROPOSED ACCEPT.

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line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/ FM SC FM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 1	SC 1.3	P <b>24</b>	L <b>5</b>	# 590	C/ 1	SC 1.4.3	34a	P <b>26</b>	L13	# 592
Anslow, Pet	te	Ciena			Anslow, F	Pete		Ciena		
Comment T	ype TR	Comment Status A			Comment	Type E		Comment Status D		consen
ITU-T G While al G.652-2	6.652, 2009. Ill of the referenc 2016, this would	nce to ITU-T G.652, 2016 in tes to G.652 in this draft hav leave the 27 existing referenced. version is being referenced.	ve been changeo nces to G.652 in	to dated references to	http:// This r T". A	/www.ieee80 means that "	2.org/3/ Multi-Ch 3ASE-T	hitions in 1.4 is defined at: WG_tools/editorial/require nannel Reconciliation Laye has been re-numbered t 3.	ements/words.ht er (MCRS)" com	es before "MultiGBASE-
SuggestedR	Remedy				Suggeste	dRemedy				
or:	ne 27 existing un	0 text which changes G.652 dated references to G.652 i			"Inse numb follow	ered from 1. /s:"	ig new o 4.333 d	ction to: definition after 1.4.332 "m ue to the deletion of 1.4.2 ition to 1.4.332a		
Response		Response Status W			Proposed	Response		Response Status W		
ACCEP		•			PRO	POSED ACC	EPT.			
-		O taut which sharpes O CC	2000 to C 652	2016 Maka all C 652		SC 1.4.3	34a	P <b>26</b>	L15	# 593
•		0 text which changes G.652	-2009 10 0.052-	2010. Make all 0.052	C/ 1	30 1.4.	, o 1a	1 20	=	11 000
reference	ces undated.	Ū.			Anslow, F	Pete	io iu	Ciena		
reference See http for discu C/ 1 Anslow, Pet	ces undated. p://www.ieee802 ussion on G.652 SC <b>1.4.90c</b> te	2.org/3/ca/public/meeting_ar 2.use in IEEE Std 802.3-201 P24 Ciena Comment Status D	chive/2019/09/a		Anslow, F Comment "Multi Suble Suggeste Chan	Pete <i>Type</i> <b>E</b> -Channel Re yer (MCRS) <i>dRemedy</i> ge "Multi-Ch	concilia ' as per annel R		ld be: "Multi-Cha reviation in 1.4	consen
reference See http for discu C/ 1 Anslow, Pet Comment Ty	ces undated. p://www.ieee802 ussion on G.652 SC <b>1.4.90c</b> te <i>Type</i> <b>E</b>	e.org/3/ca/public/meeting_ar e use in IEEE Std 802.3-201 P <b>24</b> Ciena	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla	Pete <i>Type</i> <b>E</b> -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS)	concilia ' as per annel R	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR	ld be: "Multi-Cha reviation in 1.4	consen
reference See http: for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR	ces undated. p://www.ieee802 ussion on G.652 SC <b>1.4.90c</b> te <i>ype</i> <b>E</b> should be 1.4.90 Remedy	corg/3/ca/public/meeting_ar use in IEEE Std 802.3-201 P24 Ciena <i>Comment Status</i> D Ob as per the editing instruct	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed	Pete <i>Type</i> <b>E</b> -Channel Re yer (MCRS) <i>dRemedy</i> ge "Multi-Ch	concilia ' as per annel R	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb	ld be: "Multi-Cha reviation in 1.4	consen
reference See http for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR Re-num	ces undated. p://www.ieee802 ussion on G.652 SC <b>1.4.90c</b> te ype <b>E</b> should be 1.4.90 Remedy hber 1.4.90c to 1	e.org/3/ca/public/meeting_ar e use in IEEE Std 802.3-201 <b>P24</b> Ciena <i>Comment Status</i> <b>D</b> 0b as per the editing instruct .4.90b	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed	Pete <i>Type</i> E -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS) <i>Response</i>	concilia ' as per annel R	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR	ld be: "Multi-Cha reviation in 1.4	consen
reference See http: for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR Re-num Proposed R	ces undated. p://www.ieee802 ussion on G.652 SC 1.4.90c te Spe E should be 1.4.90 Remedy nber 1.4.90c to 1 Response	corg/3/ca/public/meeting_ar use in IEEE Std 802.3-201 P24 Ciena <i>Comment Status</i> D Ob as per the editing instruct	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed PROI	Pete <i>Type</i> E -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS) <i>Response</i> POSED ACC SC 1.5	concilia ' as per annel R	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR: <i>Response Status</i> <b>W</b>	ld be: "Multi-Cha reviation in 1.4 S)" to: "Multi-Cha	consen annel Reconciliation annel Reconciliation
reference See http: for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR Re-num Proposed R	ces undated. p://www.ieee802 ussion on G.652 SC <b>1.4.90c</b> te ype <b>E</b> should be 1.4.90 Remedy hber 1.4.90c to 1	e.org/3/ca/public/meeting_ar e use in IEEE Std 802.3-201 <b>P24</b> Ciena <i>Comment Status</i> <b>D</b> 0b as per the editing instruct .4.90b	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed PROF CI 1 Anslow, F Comment	Pete <i>Type</i> <b>E</b> -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS) <i>Response</i> POSED ACC SC <b>1.5</b> Pete <i>Type</i> <b>E</b> expansion of	concilia ' as per annel R EPT.	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR: <i>Response Status</i> <b>W</b> <i>P</i> 26	ld be: "Multi-Cha reviation in 1.4 S)" to: "Multi-Cha <i>L</i> 42	consent annel Reconciliation annel Reconciliation # <u>594</u> consent
reference See http: for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR Re-num Proposed R	ces undated. p://www.ieee802 ussion on G.652 SC 1.4.90c te Spe E should be 1.4.90 Remedy nber 1.4.90c to 1 Response	e.org/3/ca/public/meeting_ar e use in IEEE Std 802.3-201 <b>P24</b> Ciena <i>Comment Status</i> <b>D</b> 0b as per the editing instruct .4.90b	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed PROI C/ 1 Anslow, F Comment The e code'	Pete <i>Type</i> <b>E</b> -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS) <i>Response</i> POSED ACC SC <b>1.5</b> Pete <i>Type</i> <b>E</b> expansion of	concilia ' as per annel R EPT.	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR: <i>Response Status</i> <b>W</b> <i>P</i> 26 Ciena <i>Comment Status</i> <b>D</b>	ld be: "Multi-Cha reviation in 1.4 S)" to: "Multi-Cha <i>L</i> 42	consent annel Reconciliation annel Reconciliation # <u>594</u> consent
reference See http: for discu C/ 1 Anslow, Pet Comment Ty 1.4.90c SuggestedR Re-num Proposed R	ces undated. p://www.ieee802 ussion on G.652 SC 1.4.90c te Spe E should be 1.4.90 Remedy nber 1.4.90c to 1 Response	e.org/3/ca/public/meeting_ar e use in IEEE Std 802.3-201 <b>P24</b> Ciena <i>Comment Status</i> <b>D</b> 0b as per the editing instruct .4.90b	chive/2019/09/a 8. <i>L</i> <b>34</b>	nslow_3ca_1_0919.pdf # 591	Anslow, F Comment "Multi Subla Suggeste Chan Subla Proposed PROP Cl 1 Anslow, F Comment The e code' Suggeste	Pete <i>Type</i> <b>E</b> -Channel Re ayer (MCRS) <i>dRemedy</i> ge "Multi-Ch ayer (MCRS) <i>Response</i> POSED ACC SC <b>1.5</b> Pete <i>Type</i> <b>E</b> expansion of <i>dRemedy</i>	concilia ' as per annel R ' EPT.	Ciena <i>Comment Status</i> <b>D</b> tion Layer (MCRS)" shou the expansion of the abb econciliation Layer (MCR: <i>Response Status</i> <b>W</b> <i>P</i> 26 Ciena <i>Comment Status</i> <b>D</b>	ld be: "Multi-Cha reviation in 1.4 S)" to: "Multi-Cha <i>L</i> 42	conservannel Reconciliation

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C/ 1

SC 1.5

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 30 SC 30.5.1.	.1.2	P <b>31</b>	L <b>46</b>	# 501	C/ <b>45</b>	50 43	5.2.1.23a.	.2	P <b>35</b>	L <b>40</b>	# 609
Hajduczenia, Marek		Charter Comn	nunications		Kramer, G	Blen			Broadcom		
Comment Type TR	Commer	ot Status A			Comment	Туре '	т	Comment	Status D		post-deadline
A comment against introduce an issue, t (1x25G continuous t continuous donwstre MAUs are wrong (fo transmission / 1x100	hough. For exa ransmission / 1 eam and burst r r example, 25/1	mple, 25/10GBA x10G burst mode node upstream); 0GBASE-PQG-L	SE-PQG-D3 des e reception, i.e., however, descrip	cription is correct OLT MAU with otions for all U type	instand remeir instand does p	ces of PC n_3ca_3_ ces, but tl	CS and PI 0119.pdf hat agree way to ac	MA (see haj ). We seem ement was n	duczenia_3ca_2 ed to agree to u ever reflected in	n the draft. The	ng for separate ID) to address individual existing Table 45-1 here is only a single
SuggestedRemedy					It is als	so not cle	ar wheth	er the "PMA	/PMD" arouping	n makes sense	for .3ca. Our model
Change all U type M transmission" and "c			indicate they are	e "burst-mode	assum	nes N ider	ntical inst	ances of PN	IA, but only a s	ingle instance o	f multi-wavelength PMD.
					Suggestea	dRemedy					
Response ACCEPT.	Response	e Status C								to read "Separa in the reserved	ated PCS/PMA (n)" or space.
C/ 30 SC 30.5.1.	.1.2	P <b>31</b>	L <b>54</b>	# 502	Proposed			Response			
Hajduczenia, Marek		Charter Comn	nunications		PROP	POSED AC	CCEPT II	N PRINCIPL	.E.		
Comment Type E	Commen	t Status D		consent	change	e lite exis	sing auur	esses o un	ough it to read	d "Separated PC	55/FIVIA (II)
Missing space in "1x SuggestedRemedy Should be "1x25G co						ss with PN		ts before ma	aking the chang	е.	
SuggestedRemedy	ontinuous trans					ss with PN		ts before ma	aking the chang P <b>45</b>	e. <b>L15</b>	# 553
SuggestedRemedy Should be "1x25G c	ontinuous trans <i>Response</i>	mission / 1x10G			Discus	ss with PN SC 45	MA exper	ts before ma			# 553
SuggestedRemedy Should be "1x25G c Proposed Response	ontinuous trans <i>Response</i> PT.	mission / 1x10G		# 569	Discus Cl <b>45</b> Kramer, G Comment	ss with PM SC <b>45</b> Glen <i>Type</i>	MA exper 5.2.3.6 T	Comment	P <b>45</b> Broadcom Status <b>A</b>	L15	
SuggestedRemedy Should be "1x25G c Proposed Response PROPOSED ACCEI	ontinuous trans <i>Response</i> PT.	emission / 1x10G e Status W	burst"	# 569	Discus Cl <b>45</b> Kramer, G Comment Clause	SS with PN SC 45 Glen <i>Type</i> e 45 uses	MA experi 5.2.3.6 T s terminole	Comment	P <b>45</b> Broadcom Status <b>A</b>	L15	# 553 5GBASE-PQ PCS type.
SuggestedRemedy Should be "1x25G c Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1.	ontinuous trans <i>Response</i> PT. <b>23a.1</b>	mission / 1x10G e Status W ₽ <b>35</b>	burst"	# 569	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested	SS with PN SC 45 Glen Type e 45 uses dRemedy	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec	P <b>45</b> Broadcom <i>Status</i> <b>A</b> et terminology. 1	L <b>15</b> There is no 25/2	
SuggestedRemedy Should be "1x25G cr Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1. Kramer, Glen Comment Type T Conflicting requirem	ontinuous trans <i>Response</i> PT. <b>23a.1</b> <i>Commer</i> ents: ays that "The C , and switch in	mission / 1x10G Status W P35 Broadcom at Status A DNU shall implem	burst" L28	# 569	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested	SC 45 Slen Type e 45 uses dRemedy ce 7 occu	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec	P <b>45</b> Broadcom Status <b>A</b> at terminology. 1 SE-PQ with 25	L <b>15</b> There is no 25/2	
SuggestedRemedy Should be "1x25G cr Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1. Kramer, Glen Comment Type T Conflicting requirem C142 PMA clause sa differential encoding	ontinuous trans <i>Response</i> PT. <b>23a.1</b> <i>Commer</i> ents: ays that "The C , and switch in ate."	Finission / 1x10G Status W P35 Broadcom at Status A NU shall implem the ister bit 1.29.15 is	burst" <i>L</i> 28 ent automatic de	tection of receive path	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested Replac Response	SC 45 Slen Type e 45 uses dRemedy ce 7 occu	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec of 25/25GBA	P <b>45</b> Broadcom Status <b>A</b> at terminology. 1 SE-PQ with 25	L <b>15</b> There is no 25/2	
SuggestedRemedy Should be "1x25G cd Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1. Kramer, Glen Comment Type T Conflicting requirem C142 PMA clause si differential encoding decoder as appropri-	ontinuous trans <i>Response</i> PT. <b>23a.1</b> <i>Commer</i> ents: ays that "The C , and switch in ate."	Finission / 1x10G Status W P35 Broadcom at Status A NU shall implem the ister bit 1.29.15 is	burst" <i>L</i> 28 ent automatic de	tection of receive path	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested Replac Response	SC 45 Slen Type e 45 uses dRemedy ce 7 occu	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec of 25/25GBA	P <b>45</b> Broadcom Status <b>A</b> at terminology. 1 SE-PQ with 25	L <b>15</b> There is no 25/2	
SuggestedRemedy Should be "1x25G cr Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1. Kramer, Glen Comment Type T Conflicting requirem C142 PMA clause sa differential encoding decoder as appropri- on the other hand, P differential encoding	ontinuous trans <i>Response</i> PT. <b>23a.1</b> <i>Commer</i> ents: ays that "The C , and switch in ate."	Finission / 1x10G Status W P35 Broadcom at Status A NU shall implem the ister bit 1.29.15 is	burst" <i>L</i> 28 ent automatic de	tection of receive path	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested Replac Response	SC 45 Slen Type e 45 uses dRemedy ce 7 occu	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec of 25/25GBA	P <b>45</b> Broadcom Status <b>A</b> at terminology. 1 SE-PQ with 25	L <b>15</b> There is no 25/2	
SuggestedRemedy Should be "1x25G cr Proposed Response PROPOSED ACCEI Cl 45 SC 45.2.1. Kramer, Glen Comment Type T Conflicting requirem C142 PMA clause sa differential encoding decoder as appropri- on the other hand, P differential encoding SuggestedRemedy Change "R/W" to "R/W in OLT	ontinuous trans Response PT. 23a.1 Commen ents: ays that "The C , and switch in ate." PMA control reg in both the OL	Finission / 1x10G Status W P35 Broadcom at Status A NU shall implem the ister bit 1.29.15 is	burst" <i>L</i> 28 ent automatic de	tection of receive path	Discus Cl <b>45</b> Kramer, G Comment Clause Suggested Replac Response	SC 45 Slen Type e 45 uses dRemedy ce 7 occu	MA exper 5.2.3.6 T s terminole	Comment ogy incorrec of 25/25GBA	P <b>45</b> Broadcom Status <b>A</b> at terminology. 1 SE-PQ with 25	L <b>15</b> There is no 25/2	

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 45.2.3.6

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C/ <b>45</b>	SC 45.2.3.45a	P <b>49</b>	L <b>54</b>	# 596	C/ 56	SC 56.1.2	P <b>55</b>	L11	# 504
Anslow, Pe	ete	Ciena			Hajducze	nia, Marek	Charter Com	munications	
Comment	Гуре Е	Comment Status D		consent	Comment	Туре Т	Comment Status D		
Suggested Unche Proposed I	Remedy Ck "Draw Bottom Response DSED ACCEPT. SC 45.5.3.3 ete	r Table 217a at the foot of pa Ruling on Last Sheet Only" <i>Response Status</i> W <i>P</i> <b>53</b> Ciena <i>Comment Status</i> <b>D</b>	uge 49	# <u>597</u>	of 250 capab be co To fur or XG descr text al To av best t	GMII and XGMII ble of 25G and 10 nsidered confusi ther add to conf MII when the ac iption. There are like). oid discussion o o use a generic	2.0 added footnotes to 25GM halves to achieve assymetric OG operation, hence the refer ng. usion, we have also heavily u tual clock rate across the MII in total 85 instances where x n actual physical implementa term we already define (xMII) and not distinguish the spee	data rates. Yet 2 rence to XGMII is sed the term "xM does not matter MII is used in the tion of 25GMII an where referring t	5GMII is defined as not needed and may II" to imply the 25GMII for the purpose of draft (drawings and d XGMII, it might be o a generic MII
This dr adds it Suggested Chang Proposed I	aft is assumed to ems up to "MM23 <i>Remedy</i> e "MM152" to be '	be applied after P802.3cg ar 1" in the D2.1 version	nd P802.3ch. T		Figure Proposed PROF	est to change "2 e 143–17 <i>Response</i> POSED ACCEP <sup>-</sup>	5GMII" with "xMII" in Figures <i>Response Status</i> <b>W</b> F. in and see if 25GMII could be		
					CI 67	SC 67.1	P64	L16	# 557
					Kramer, C	Glen	Broadcom		
					<i>Comment</i> In tab	51	Comment Status D s 25/25PQ and 25/10PQ are	missing hyphen	consen
					Suggester Add h	<i>dRemedy</i> lyphen in 4 place	es		
					,	Response	Response Status W		

C/ 67 SC 67.1

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

	SC 141.1.3	P65	L34	# 500	C/ 141	SC 141.	~ 4 4	P <b>71</b>	L51	# 500
C/ 141			L <b>34</b>	# 562			3.1.1		L31	# 598
Kramer, Gle		Broadcom			Anslow, Pe		_	Ciena		
Comment T "Nx25G on two v Table 1	G-EPON PHY Lin wavelengths; two	Comment Status <b>D</b> nk Types supporting 50 Gb/s to o wavelengths are listed for th	use wavelength nese links in Tal	<i>consent</i> division multiplexing ble 141–1 through	Comment 7 see 14 comme Suggestedl	12.x.x.x" rer ent		Comment Status A is draft unready for progres	sion to SA ball	XRE ot - hence a required
	l text came as co	sng, as it seems like to unrela omment #356 against D2.0 an			Response	e "see 142. PT IN PRIN		a suitable cross-reference Response Status W		
SuggestedF	Remedy				ACCEP		ICIPLE.			
		as it was in the original comm			See co	mment #56	65			
on two v		nk Types supporting 50 Gb/s on ad hense* two wavelengths ar			Cl 141 Kramer, Gl	SC 141.	3.1.1	P <b>71</b> Broadcom	L <b>51</b>	# 565
Proposed R	Response	Response Status W			Comment 1			Comment Status A		XRE
PROPC	OSED ACCEPT	IN PRINCIPLE.				rence to 14	2.x.x.x			
		as it was in the original comm nk Types supporting 50 Gb/s of		division multiplexing	1100143	2.4.1. make	it live			
on two v through	wavelengths *an 1 Table 141–5."	nd hence* two wavelengths ar	e listed for these	e links in Table 141–1	Response ACCEF			Response Status C		
on two v through C/ 141	wavelengths *an n Table 141–5." SC <b>141.2.6</b>	nd hence* two wavelengths ar P69			Response			Response Status C	L <b>52</b>	# 599
on two v through C/ 141 Kramer, Gle	wavelengths *an Table 141–5." SC <b>141.2.6</b> en	nd hence* two wavelengths ar	e listed for these	e links in Table 141–1	Response ACCEF	РТ. SC 141.			L <b>52</b>	# 599
on two y through <i>Cl</i> 141 Kramer, Gle <i>Comment T</i> Table 1 1) Som 2) "PME convert 3) the o 4) "PME 5) Desc	wavelengths *an Table 141–5." SC 141.2.6 en Fype T 44-6 has severa the rows refer to s Ds use a PON P the serial optical stit only table with a to D power budget criptions for mos	P69 Broadcom Comment Status A al issues: ingular PMD, some refere to '2MP protocol" is wrong. PMD ream to electrical and vise ver caption "Explanation". Most o class" should be called "PMD t rows properly point to the re	e listed for these L12 plural PMDs. Is do not use an rsa. ther tables use power class" levant PMD clas	e links in Table 141–1 # <u>561</u> y protocols. They caption "Description" ss, except the	Response ACCEF Cl 141 Anslow, Pe Comment 7 "shall b "shall" i "illustra Suggested	SC 141. SC 141. Type T Type T e as illustra is appropria tted" is app Remedy	<b>3.1.1</b> ated in <sup>-</sup> ate for a propriate	P <b>71</b>	language.	
on two y through <i>Cl</i> 141 Kramer, Gle <i>Comment T</i> Table 1 1) Some 2) "PME convert 3) the o 4) "PME 5) Desc	wavelengths *an Table 141–5." SC 141.2.6 en Fype T 44-6 has several the rows refer to s Ds use a PON P th serial optical stit only table with a to D power budget criptions for mos- tion for the coex	P69 P69 Broadcom <i>Comment Status</i> <b>A</b> al issues: ingular PMD, some refere to '2MP protocol" is wrong. PMD ream to electrical and vise ve caption "Explanation". Most o class" should be called "PMD	e listed for these L12 plural PMDs. Is do not use an rsa. ther tables use power class" levant PMD clas	e links in Table 141–1 # <u>561</u> y protocols. They caption "Description" ss, except the	Response ACCEF Cl 141 Anslow, Pe Comment 7 "shall b "shall" i "illustra Suggested	SC 141. SC 141. Type T Type T e as illustra is appropria tted" is app Remedy	<b>3.1.1</b> ated in <sup>-</sup> ate for a propriate as illust	P71 Ciena Comment Status A Table 141–10" is conflicting normative requirement. e for something informative.	language.	
on two y through C/ 141 Kramer, Gle Comment T Table 1 1) Som 2) "PME convert 3) the o 4) "PME 5) Desc descript definitio	wavelengths *an Table 141–5." SC 141.2.6 en Type T 144-6 has several te rows refer to s Ds use a PON P t serial optical strony table with a construction for most triptions for most tion for the coext on.	P69 Broadcom Comment Status A al issues: ingular PMD, some refere to '2MP protocol" is wrong. PMD ream to electrical and vise ver caption "Explanation". Most o class" should be called "PMD t rows properly point to the re	e listed for these L12 plural PMDs. Is do not use an rsa. ther tables use power class" levant PMD clas	e links in Table 141–1 # <u>561</u> y protocols. They caption "Description" ss, except the	Response ACCEF Cl 141 Anslow, Pe Comment 7 "shall b "shall" i "illustra Suggested/ Change Response	SC 141. SC 141. Type T Type T e as illustra is appropria tted" is app Remedy	<b>3.1.1</b> ated in <sup>-</sup> ate for a propriate as illust	P71 Ciena Comment Status A Table 141–10" is conflicting normative requirement. e for something informative. rated in Table 141–10" to: "	language.	
on two y through Cl 141 Kramer, Gle Comment T Table 1 1) Some 2) "PME convert 3) the o 4) "PME 5) Desc descript definitio SuggestedF	wavelengths *an Table 141–5." SC 141.2.6 en Type T 144-6 has several te rows refer to s Ds use a PON P t serial optical strony table with a for D power budget criptions for most tion for the coex on. Remedy	P69 Broadcom Comment Status A al issues: ingular PMD, some refere to '2MP protocol" is wrong. PMD ream to electrical and vise ver caption "Explanation". Most o class" should be called "PMD t rows properly point to the re	e listed for these L12 plural PMDs. s do not use an rsa. ther tables use power class" levant PMD clas ription just repea	# <u>561</u> # <u>561</u> y protocols. They caption "Description" as, except the ats the already given	Response ACCEF Cl 141 Anslow, Pe Comment T "shall b "shall" i "illustra Suggested Change Response ACCEF	PT. SC 141. ete Type T e as illustrr is appropria ted" is app Remedy e "shall be a	3.1.1 ated in <sup>-</sup> ate for a propriate as illust ICIPLE.	P71 Ciena Comment Status A Table 141–10" is conflicting normative requirement. e for something informative. rated in Table 141–10" to: "	language. shall be as giv	en in Table 141–10"
on two y through <i>Cl</i> <b>141</b> Kramer, Gle <i>Comment T</i> Table 1 (1) Some 2) "PME convert 3) the o 4) "PME 5) Desc descript definitio	wavelengths *an Table 141–5." SC 141.2.6 en Type T 144-6 has several te rows refer to s Ds use a PON P t serial optical strony table with a for D power budget criptions for most tion for the coex on. Remedy	P69 Broadcom Comment Status A al issues: ingular PMD, some refere to 2MP protocol" is wrong. PMD ream to electrical and vise ver caption "Explanation". Most o class" should be called "PMD t rows properly point to the re istence parameter. This desc	e listed for these L12 plural PMDs. s do not use an rsa. ther tables use power class" levant PMD clas ription just repea	# <u>561</u> # <u>561</u> y protocols. They caption "Description" as, except the ats the already given	Response ACCEF Cl 141 Anslow, Pe Comment T "shall b "shall" i "illustra Suggested Change Response ACCEF	PT. SC 141. ete Type T e as illustrr is appropria ted" is app Remedy e "shall be a	3.1.1 ated in <sup>-</sup> ate for a propriate as illust ICIPLE.	P71 Ciena Comment Status A Table 141–10" is conflicting normative requirement. e for something informative. rated in Table 141–10" to: " Response Status C	language. shall be as giv	en in Table 141–10"

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/ 141 SC 141.3.1.1 Page 5 of 23 9/10/2019 3:30:20 PM

XREF

XREF

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C/ 141 SC 141.3.1.1	P <b>71</b>	L <b>52</b>	# 503		C/ 141	SC 141.5.1	P <b>76</b>	L19	# 601
Hajduczenia, Marek	Charter Com	munications			Anslow, Pe	ete	Ciena		
Comment Type ER	Comment Status A			XREF	Comment	Type <b>TR</b>	Comment Status A		MASK; 143.4.4
Cross reference is missi	ing (marked in red)						1.5.1, the reference to not		
SuggestedRemedy							raft unready for progressi	on to SA Dallot - ne	ence a required comment
Not sure where the piint	er should be do, but x.x.x.x	will not work for s	sure :)		Suggested		k definition and remove e	ditor's note in 141	5 1
lesponse	Response Status C					•	suitable "details" in 143.4		
ACCEPT IN PRINCIPLE					Response		Response Status W		
See comment #565					ACCER	PT IN PRINCIPL	.E.		
C/ 141 SC 141.3.1.3	P <b>72</b>	L <b>41</b>	# 600		Remov	ve the editor's no	ote page 76, line 19.		
Anslow, Pete Comment Type E In "PMD_UNITDATA[i].r SuggestedRemedy	Ciena Comment Status D request(tx_bit) (where i = 0 d	or 1)" i is a variabl	le and should be	<i>consent</i> e italic	masks optics are not eye op	are tighter than suppliers is that t burdensome. N ening at the RX	ion (see comment #417 a they needed to be for the they are consistent with e lote also that the purpose at worst case loss/noise, TX	FEC we are using existing 25G EML a of higher FEC gair	The view of 802.3ca nd DML technology and is to allow a smaller
0	font here (2 places) and ar <i>Response Status</i> <b>W</b>	nywhere else in th	e draft that this	occurs		posed eye at the	43.4.4, see post-deadline	comment #608.	
Change "I" to be in italic Proposed Response PROPOSED ACCEPT.		nywhere else in th	e draft that this	occurs				e comment #608.	# 513
Proposed Response		bywhere else in th	e draft that this # 506	occurs	For pro	oposed text for 1 SC 141.5.2	43.4.4, see post-deadline		# 513
Proposed Response PROPOSED ACCEPT.	Response Status W	L19		occurs	For pro C/ <b>141</b>	SC 141.5.2	43.4.4, see post-deadline P <b>78</b>		# 513
Proposed Response PROPOSED ACCEPT. C/ 141 SC 141.5.1 Hajduczenia, Marek	Response Status W	L19		occurs MASK	For pro C/ 141 Lee, Han H Comment 7	SC 141.5.2	43.4.4, see post-deadline P <b>78</b> ETRI Comment Status A		# 513
Proposed Response PROPOSED ACCEPT. C/ 141 SC 141.5.1 Hajduczenia, Marek	Response Status W P76 Charter Com Comment Status A	L19			For pro C/ 141 Lee, Han H Comment 7	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe	43.4.4, see post-deadline P <b>78</b> ETRI Comment Status A		# <u>513</u>
Proposed Response PROPOSED ACCEPT. Cl 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER	Response Status W P76 Charter Com Comment Status A	L19			For pro Cl 141 Lee, Han H Comment T Missing Suggested	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe	43.4.4, see post-deadline P <b>78</b> ETRI Comment Status A		# 513
Proposed Response PROPOSED ACCEPT. C/ 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy	Response Status W P76 Charter Com Comment Status A	L19			For pro Cl 141 Lee, Han H Comment T Missing Suggested	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit	43.4.4, see post-deadline P <b>78</b> ETRI Comment Status A		# <u>513</u>
Proposed Response PROPOSED ACCEPT. C/ 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro C/ 141 Lee, Han H Comment T Missing Suggested Insert T Response	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit	43.4.4, see post-deadline <b>P78</b> ETRI <i>Comment Status</i> <b>A</b> I wavelengths		
Proposed Response PROPOSED ACCEPT. C/ 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy Response	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro C/ 141 Lee, Han H Comment T Missing Suggested Insert ' Response ACCEF	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit PT. SC 141.5.2	43.4.4, see post-deadline P78 ETRI Comment Status A I wavelengths Response Status W	L11	# <u>513</u> # <u>512</u>
Proposed Response PROPOSED ACCEPT. 2/ 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy Response ACCEPT IN PRINCIPLE	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro C/ 141 Lee, Han H Comment T Missing Suggested Insert ' Response ACCER	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit PT. SC 141.5.2 Hyub	43.4.4, see post-deadline P78 ETRI Comment Status A I wavelengths Response Status W P78	L11	
Proposed Response PROPOSED ACCEPT. Cl 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy Response ACCEPT IN PRINCIPLE	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro C/ 141 Lee, Han H Comment T Missing Suggested Insert ' Response ACCER C/ 141 Lee, Han H Comment T	pposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit PT. SC 141.5.2 Hyub Type E	43.4.4, see post-deadline P78 ETRI Comment Status A I wavelengths Response Status W P78 ETRI	L11 L11	# <u>512</u> consen
Proposed Response PROPOSED ACCEPT. I 141 SC 141.5.1 Rajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy Response ACCEPT IN PRINCIPLE	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro C/ 141 Lee, Han H Comment T Missing Suggested Insert ' Response ACCER C/ 141 Lee, Han H Comment T	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit PT. SC 141.5.2 Hyub Type E consistent with c	43.4.4, see post-deadline P78 ETRI Comment Status A I wavelengths Response Status W P78 ETRI Comment Status D	L11 L11	# <u>512</u> consen
Proposed Response PROPOSED ACCEPT. 2/ 141 SC 141.5.1 Hajduczenia, Marek Comment Type ER Editor's note with no tex SuggestedRemedy Response ACCEPT IN PRINCIPLE	Response Status W P76 Charter Com Comment Status A t at this time. Response Status C	L19			For pro Cl 141 Lee, Han H Comment T Missing Suggested Insert ' Response ACCER Cl 141 Lee, Han H Comment T To be o	bposed text for 1 SC 141.5.2 Hyub Type ER g Unit of channe Remedy nm' as Unit PT. SC 141.5.2 Hyub Type E consistent with c Remedy	43.4.4, see post-deadline P78 ETRI Comment Status A I wavelengths Response Status W P78 ETRI Comment Status D	L11 L11 meter should be Sig	# <u>512</u> <i>consen</i> gnaling rate (range)

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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 Page 6 of 23

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 141
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 SORT ORDER: Clause, Subclause, page, line
 SC
 141
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C/ 141 SC	C 141.6.1	P82	L12	# 514	C/ 141 SC	2 141.7.13.2	P89	L <b>26</b>	# 517
Lee, Han Hyub	· · · · · · · · · · · · · · · · · · ·	ETRI	- 1 <b>2</b>	# 514	Lee, Han Hyub	· 171.1110.2	ETRI	220	
Comment Type	ER t of channel	Comment Status A wavelengths			Comment Type	T Con be change to TP4	nment Status A		
SuggestedReme Insert 'nm' a	•				SuggestedReme Change TP <sup>2</sup>	•			
Response ACCEPT.		Response Status W			Response ACCEPT IN	Resp PRINCIPLE.	oonse Status C		
C/ 141 SC	C 141.6.1	P <b>82</b>	L <b>18</b>	# 515	Change per	comment and also	change TP4 to TP4	[i] in 141.7.13.2	
Lee, Han Hyub		ETRI			C/ 141 SC	2 141.10.4.1	P <b>98</b>	L <b>24</b>	# 602
Comment Type	ER	Comment Status A			Anslow, Pete		Ciena		
0	0	launch power, each channe	ei (max)		Comment Type	T Con	nment Status A		
SuggestedReme Insert 'dBm' Response ACCEPT.	•	Response Status W			for items wit "M" change "O" change "Something:	th status of: the Support entry t the Support entry t :M" change the Su	o "Yes [] No []" oport entry to "Yes []	N/A [ ]"	t column:
C/ <b>141</b> SC _ee, Han Hyub	2 141.6.1	Р <b>83</b> ЕТП	L11	# 516	"O.Number"	change the Suppo	oport entry to "Yes [ ] ort entry to "Yes [ ] No ort entry to "Yes [ ] No	o[]"	
Comment Type	E stent with of	Comment Status D her tables, the first parameter	er should be Sig	<i>consent</i> naling rate (range)		N7, FN8, and FN9	change the entry to " ange the entry to "Ye		
•	order of Ch	annel wavelength ranges an	d Signaling rate		Response ACCEPT.		oonse Status <b>C</b>	5[]10[]	
Proposed Respo PROPOSED		Response Status W			C/ 142 SC	C 142.1.1.2	P111	L <b>40</b>	# 507
	57100EF 1.				Hajduczenia, Ma	arek	Charter Com	munications	
					Comment Type " the follow really.		nment Status <b>D</b> re used in this clause	e" - well, it is not j	conser ust in Clause 142,
					SuggestedReme	edy the following conve	entions are used:"		
					Proposed Respo	onse Resp	onse Status W		

C/ 142 SC 142.1.1.2

#### IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142	SC 142.1.1.6	P115	L <b>28</b>	# 508
Hajduczer	nia, Marek	Charter Comn	nunications	
Comment	Type E	Comment Status D		consent
	te diagrams used this clause	n this clause make extensiv	e use of first-in,	first-out" - well, not
Suggested	dRemedy			
Chang	ge to "State diagra	ms make extensive use of fi	rst-in, first-out"	
Proposed	Response	Response Status W		
PROF	POSED ACCEPT.			
C/ 142	SC 142.1.3	P <b>116</b>	L <b>5</b>	# 611
Kramer, G	Blen	Broadcom		
Comment	Туре Т	Comment Status A		post-deadline
SP2 a attem ONU	re the same, the C pt. This saving of parsing and proces	vs 3 sync patterns was only DLT may send one less SYN downstream bandwidth is ne ssing. Also it creates ambigu SCOVERY it had 3 non zero	C_PATTERN M egligible, but its a uity wrt the SPLe	IPCPDU per discovery adds complexity to ength fields. If OLT sent

#### SuggestedRemedy

Simplyfy the protocol by always requiring 3 SYNC\_PATTERN messages, even if SP1 and SP2 patterns are the same.

The specific changes are shown in kramer\_3ca\_10\_0919.pdf

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement changes per

http://www.ieee802.org/3/ca/public/meeting\_archive/2019/09/kramer\_3ca\_10\_0919.pdf

In Figure 142-4, delete "TP" from under "EBD", and change "FEC-unprotected area" to "Terminating sequence" at the end of the burst, and at the start of the burst call it "Burst synchronization sequence"

C/ 142	SC 142.1.3.1	P116	L <b>49</b>	# 541
Lynskey, Ei	ic	Broadcom		
Comment T	ype T	Comment Status A		

The SP1 is written with its LSB on the left, and MSB on the right. The bit order should be specified, similar to how it was done in Clause 76.

#### SuggestedRemedy

The transmission bit sequence is binary 1 followed by:

Response Response Status C

ACCEPT IN PRINCIPLE.

The proposed solution includes two repeated bits which will remain even in the balanced mode.

Change

The SP1 synchronization pattern zone covers Ton, Trx\_settling, and TCDR intervals and has the value of 0x1-(55)32.

То

The SP1 synchronization pattern zone covers T<sub>on</sub>, T<sub>rx\_settling</sub>, and T<sub>CDR</sub> intervals and has the value of 0x1-(AA)<sub>32</sub>. The transmission bit sequence consists of 257 bits of alternating 1s and 0s, starting with 1.

C/ 142 SC 142.1.3.1 Page 8 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142	SC 142	.1.3.1	Р	116	L <b>52</b>	#	576
Kramer, G	len		Broa	adcom			
Comment	Туре Т	२ (	Comment Statu	s A			SBL
			SBD needs furth n order as LSB		ation. For vari	ous numeric	constants in
using E + <inv> http://w</inv>	3D and SP >SP[64], se /ww.ieee80	values de e slide 1 )2.org/3/c	et (for consisten ofined in 802.3a I in a/public/meeting most-significar	v(SBD25	7 = 1 + BD[64 /2018/01/kram	] + SP[64] + er_3ca_2_0	<inv>BD[64] 118.pdf. The</inv>
Suggested	Remedy						
Therea	are two opt	tions:					
#1) To	claryfy SB	D transmi	ssion order, ad	d a binary	sequence, as	it was done	in 802.3av.
#2) Do	n't define S	BD value	in 802.3ca, jus	r referenc	e SP and BD	in 802.3av.	
The co	mmenter p	orefers op	tion #1. Both op	tions are	shown in kram	ner_3ca_7_0	)919.pdf
Response ACCEI Use op	PT IN PRIN	, R NCIPLE.	esponse Status	6 <b>C</b>			
Response ACCEI Use op http://w	PT IN PRIN	r )2.org/3/ca		6 <b>C</b>			
Response ACCEI Use op http://w	PT IN PRIN Dition #1 per www.ieee80	r )2.org/3/ci P3.	esponse Status a/public/meeting	6 <b>C</b>		er_3ca_7_0	
Response ACCEI Use op http://w change	PT IN PRIN otion #1 per www.ieee80 e SP2 to Si SC 142	r )2.org/3/ci P3.	esponse Status a/public/meeting P	s <b>C</b> g_archive	/2019/09/kram	er_3ca_7_0	919.pdf, but
Response ACCEI Use op http://w change Cl 142 Lynskey, E Comment	PT IN PRIN ption #1 per www.ieee80 a SP2 to Si SC 142 Sric Type T 3D is writte	RCIPLE. 22.org/3/ca P3. .1.3.1 n with its	esponse Status a/public/meeting P	g_archive, 116 adcom s A and MSE	/2019/09/kram 	er_3ca_7_0 	919.pdf, but 540 SBL
Response ACCEI Use op http://w change Cl 142 Lynskey, E Comment	PT IN PRIN ption #1 per www.ieee80 SP2 to SI SC 142 sric Type T BD is writte ed, similar	RCIPLE. 22.org/3/ca P3. .1.3.1 n with its	esponse Status a/public/meeting P Broa Comment Status LSB on the left,	g_archive, 116 adcom s A and MSE	/2019/09/kram 	er_3ca_7_0 	919.pdf, but 540 SBL
Response ACCEI Use op http://w change C/ 142 Lynskey, E Comment T The SE specifie Suggested The tra 1111 1 1101 0 0000 0	PT IN PRIN ption #1 per www.ieee80 $\Rightarrow$ SP2 to Si SC 142 Sric Type T BD is writter ed, similar Remedy ansmission 101 0000 (110) 1010 1111	RCIPLE. r 02.org/3/ca P3. .1.3.1	esponse Status a/public/meeting P Broa Comment Status LSB on the left,	g_archive, g_archive, 116 adcom s A and MSE use 76. followed b 11 1010 0 00 0001 1 00 0101 1	/2019/09/kram <i>L</i> 54 5 on the right. by: 011 1001 001 011 0001 101 100 0110 110	er_3ca_7_0 # The bit orde 0 1101 1101 0 0010 0111 1 0010 0010	919.pdf, but 540 SBL er should be 1001 1010 1101 0101 0 0110 0101
Response ACCEI Use op http://w change C/ 142 Lynskey, E Comment T The SE specifie Suggested The tra 1111 1 1101 0 0000 0	PT IN PRIN ption #1 per www.ieee80 $\Rightarrow$ SP2 to Si SC 142 Sric Type T BD is writter ed, similar Remedy ansmission 101 0000 (110) 1010 1111	RCIPLE. NCIPLE. 22.org/3/c P3. 1.3.1 n with its to how it with bit seque 0010 0001 1111 0001 1101 1110 0000 11110	esponse Status a/public/meeting <i>P</i> Broa Comment Statu LSB on the left, was done in Cla nce is binary 1 1 1000 1010 01 1 1011 0100 100 0 0111 0101 100	g_archive, g_archive, 116 adcom s A and MSE iuse 76. followed b 11 1010 0 00 0001 1 00 0101 1 11 1110 0	/2019/09/kram <i>L</i> 54 5 on the right. by: 011 1001 001 011 0001 101 100 0110 110	er_3ca_7_0 # The bit orde 0 1101 1101 0 0010 0111 1 0010 0010	919.pdf, but 540 SBL er should be 1001 1010 1101 0101 0 0110 0101
Response ACCEI Use op http://w change C/ 142 Lynskey, E Comment The SE specific Suggested The tra 1111 1 101 0 0000 0 0010 1 Response	PT IN PRIN ption #1 per www.ieee80 $\Rightarrow$ SP2 to Si SC 142 Sric Type T BD is writter ed, similar Remedy ansmission 101 0000 (110) 1010 1111	RCIPLE. 22.org/3/ci P3. 1.3.1 .1.3.1 bit seque bit seque 0110 0007 1101 1110 0000 1110 R	Apublic/meeting a/public/meeting <i>P</i> Broa Comment Statu LSB on the left, was done in Cla nce is binary 1 1 1000 1010 01 1 1010 1010 100 0 0111 0101 100 0 0100 1011 01	g_archive, g_archive, 116 adcom s A and MSE iuse 76. followed b 11 1010 0 00 0001 1 00 0101 1 11 1110 0	/2019/09/kram <i>L</i> 54 5 on the right. by: 011 1001 001 011 0001 101 100 0110 110	er_3ca_7_0 # The bit orde 0 1101 1101 0 0010 0111 1 0010 0010	919.pdf, but 540 SBL er should be 1001 1010 1101 0101 0 0110 0101
Response ACCEI Use op http://w change Cl 142 Lynskey, E Comment 7 The SE specific Suggested The tra 1111 1 1101 0 0000 0 0010 1 Response ACCEI	PT IN PRIN ption #1 per www.ieee80 a SP2 to Si SC 142 SC 142 Fric Type T BD is writter ed, similar Remedy ansmission 101 0000 ( 110 0001 ( 111 0 ( 001 1111 ( 001 1110 ( 110 0)	RCIPLE.	Apublic/meeting a/public/meeting <i>P</i> Broa Comment Statu LSB on the left, was done in Cla nce is binary 1 1 1000 1010 01 1 1010 1010 100 0 0111 0101 100 0 0100 1011 01	g_archive, g_archive, 116 adcom s A and MSE iuse 76. followed b 11 1010 0 00 0001 1 00 0101 1 11 1110 0	/2019/09/kram <i>L</i> 54 5 on the right. by: 011 1001 001 011 0001 101 100 0110 110	er_3ca_7_0 # The bit orde 0 1101 1101 0 0010 0111 1 0010 0010	919.pdf, but 540 SBL er should be 1001 1010 1101 0101 0 0110 0101

	SC 142.2.2	P1 <sup>-</sup>	19	L12	# 499
Hajduczer	iia, Marek	Chart	er Com	munications	
Comment	Туре Е	Comment Status	D		consent
		uld be "64B/66B End hould be "LDPC FEC			
Suggested	lRemedy				
per co	mment				
Proposed	Response	Response Status	w		
PROP	OSED ACCEPT.				
C/ 142	SC 142.2.2	P1 <sup>-</sup>	19	L <b>23</b>	# 498
Hajduczer	iia, Marek	Chart	er Com	munications	
Comment	Туре Е	Comment Status	D		consent
		of XBUFFER. There at I believe to be the			FER and 13 instances
Suggested	lRemedy				
	je all instances (c 142–5)	cap sensitive) of XBU	IFFER	to xBuffer (all seem	to be limited to
Proposed	Deenenee	Response Status			
i roposou .	Response	Response Status	vv		
•	OSED ACCEPT.	•	vv		
		•		L33	# 500
PROP	OSED ACCEPT. SC 142.2.2	P1'	19	L <b>33</b> Imunications	# 500
PROP	OSED ACCEPT. SC <b>142.2.2</b> nia, Marek	P1'	<b>19</b> er Com		# 500 consent
PROP Cl 142 Hajduczer Comment	OSED ACCEPT. SC 142.2.2 nia, Marek Type E	P1 <sup>-</sup> Chart	19 er Com D	munications	consent
PROP Cl 142 Hajduczer Comment	OSED ACCEPT. SC 142.2.2 nia, Marek <i>Type</i> E ot believe INPUT	P1 Chart Comment Status	19 er Com D	munications	consent
PROP Cl 142 Hajduczer Comment I do no Suggested Chang	OSED ACCEPT. SC 142.2.2 nia, Marek <i>Type</i> E ot believe INPUT	P1 Chart <i>Comment Status</i> _FIFO and TX_FIFO o InputFifo	19 er Com D	munications	consent
PROP Cl 142 Hajduczer Comment I do no Suggested Chang	SC 142.2.2 SC 142.2.2 hia, Marek Type E bt believe INPUT_ IRemedy ge INPUT_FIFO to ge TX_FIFO to Tx	P1 Chart <i>Comment Status</i> _FIFO and TX_FIFO o InputFifo	19 er Com D exist (a	munications	consent

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/ 142 SC 142.2.2

## Proposed Responses IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142	SC 142.2.4.1	P120	L16	# 577	C/ 142	SC 142.2.4.2	P123	L11	# 580
Wienckows	ski, Natalie	General Motor	S		Wienckow	ski, Natalie	General Moto	ors	
Comment 7	Гуре Е	Comment Status D		consent	Comment	Туре Е	Comment Status D		consen
instead	of commas betwe	es clarity, follow the IEEE E een numbers in tens or hund ups should be separated by	Ireds of thousa	nds (e.g., 62 000, 100	instead	d of commas bei	roves clarity, follow the IEEE tween numbers in tens or hu proups should be separated b	ndreds of thousa	ands (e.g., 62 000, 100
Suggested	Remedy				Suggestea	Remedy			
	e: = 3072 × 17664 3 072 × 17 664	l .			Chang To: 14	e: 14392 392			
Proposed F	Response	Response Status W			Proposed	Response	Response Status W		
PROPO	OSED ACCEPT.				PROP	OSED ACCEPT			
C/ 142	SC 142.2.4.2	P <b>123</b>	L <b>8</b>	# 578	C/ 142	SC 142.2.4.2	P123	L17	# 581
Wienckows	ski, Natalie	General Motor	S		Wienckow	ski, Natalie	General Moto	ors	
Comment 7	Гуре Е	Comment Status D		consent	Comment	Туре Е	Comment Status D		consen
000, bu dash. <i>Suggestedi</i>	at 4000). The gro R <i>emedy</i> e: 14592	een numbers in tens or hund ups should be separated by			000, b dash. <i>Suggeste</i> d	ut 4000). The g <i>Remedy</i> e: 16962	tween numbers in tens or hu roups should be separated b		
Also on	n P123 L12				Proposed	Response	Response Status W		
Proposed F PROPC	Response DSED ACCEPT.	Response Status W			•	OSED ACCEPT	,		
C/ 142	SC 142.2.4.2	P <b>123</b>	L <b>10</b>	# 579					
Wienckows	ski, Natalie	General Motor	S						
Comment T	Гуре Е	Comment Status D		consent					
instead 000, bu dash.	of commas betwee tt 4000). The gro	es clarity, follow the IEEE E een numbers in tens or hund ups should be separated by	Ireds of thousa	nds (e.g., 62 000, 100					
Suggested Change To: 17	e: 17664								
Proposed F	Response DSED 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/ 142 SC 142.2.4.2 Page 10 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142	SC 142.2.4.3	P123	L <b>49</b>	# 550	C/ 142	SC 142.	2.4.3	P123	L <b>50</b>	# <u>551</u>
Laubach,	Mark	Broadcom			Laubach,	Mark		Broadcom		
Comment	Туре Т	Comment Status A			Comment	Туре Т		Comment Status A		
Chang D2.0.	ge to improve clari	ty based on feedback from p	revious comme	nt resolution against	Chang D2.0.	je to improv	e clarity	based on feedback from pre	vious comm	ent resolution against
Suggested	dRemedy				Suggested	lRemedy				
	new paragraph af ses here":	ter sub-clause title and befor	e paragraph be	ginning with "For the	Repla	ce paragrap	h beginr	ning with "For the purposes h	ere" with the	following paragraph:
					Ear th		horo: "D	a intarlaguar" rafare to the m	anning from	transmitted sequence to

The Interleaver and De-interleaver are realized by using Omega Networks and Reverse-Omega Networks. An Omega network is a multistage interconnection network that uses multiple stages of switches. At each stage, the switches can be controlled independently to "pass-through" or "cross". The outputs from each stage are connected to the inputs of the next stage using an interconnection system. The details of interconnection and switch programming are shown in Figure 142-9.

Response	Response Status C
----------	-------------------

ACCEPT IN PRINCIPLE.

Insert new paragraph after sub-clause title and before paragraph beginning with "For the purposes here":

The Interleaver and De-interleaver are realized by using Omega Networks and Reverse-Omega Networks. An Omega network is a multi-stage interconnection network that uses multiple stages of switches. At each stage, the switches may be controlled independently to "pass-through" or "cross". The outputs from each stage are connected to the inputs of the next stage using an interconnection system. The details of interconnection and switch programming are shown in Figure 142-9. For the purposes here: "De-interleaver" refers to the mapping from transmitted sequence to encoding/decoding sequence (including user and parity). This is implemented using "Reverse-Omega (R->L)" (i.e., data input from the right side and output from the left). "Interleaver" refers to the mapping from encoding/decoding sequence to transmitted sequence. This is implemented as "Omega (L->R)" (i.e., data input from the left side and output from the right). Note that the Interleaver and De-interleaver area reverse mapping (permutation) of each other. That is, the Omega and Reverse-Omega Networks are just the reverse of the data flow of each other.

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace paragraph beginning with "For the purposes here" with the following paragraph:

"De-interleaver" refers to the mapping from transmitted sequence to encoding/decoding sequence (including user and parity). This is implemented using "Reverse-Omega (R->L)" (i.e., data input from the right side and output from the left). "Interleaver" refers to the mapping from encoding/decoding sequence to transmitted sequence. This is implemented as "Omega (L->R)" (i.e., data input from the left side and output from the right). Note that the Interleaver and De-interleaver area reverse mapping (permutation) of each other. That is, the Omega and Reverse-Omega Networks are just the reverse of the data flow of each other.

C/ 142	SC 142.2.4.3	P <b>127</b>	L1	# 548
Laubach, M	Mark	Broadcom		

Comment Type T Comment Status A

Change to improve clarity based on feedback from previous comment resolution against D2.0.

#### SuggestedRemedy

Change "57 independent user interleavers" to "57 independent user omega networks"

Response Response Status C

ACCEPT IN PRINCIPLE.

Change "57 independent user interleavers" to "57 independent user Omega Networks"

Make the capitalization of "Omega Network" consistent in the text and figures.

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 142	Page 11 of 23
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 142.2.4.3	9/10/2019 3:30:20 PM
SORT ORDER: Clause, Subclause, page, line			

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142 SC 142.2.4.3	3 P128	L <b>48</b>	# 549	C/ 142 SC	\$ 142.2.5.3	P133	L <b>35</b>	# <u>563</u>
_aubach, Mark	Broadcom			Kramer, Glen		Broadcom		
Comment Type T	Comment Status A			Comment Type	TR	Comment Status A		
Change to improve cla D2.0.	arity based on feedback from p	revious comme	nt resolution against	the definition	n said that fu	bler() function is wrong. We nction erstes both scramble ding on whether it is called i	r and descramb	ler. This is not correct
SuggestedRemedy				-				
Change "10 independe	ent parity Interleavers" to "10 ir	ndependent pari	ty omega networks"	SuggestedReme	•	nition of ResetScrambler() fu	unction in 142.2	5.2
Response	Response Status C			I) Ose the h	Showing dem		110101111142.2.	
ACCEPT IN PRINCIP	LE.			ResetScram				
Change "10 independ	ent parity Interleavers" to "10 ir	ndependent pari	ty Omega Networks"			n resets the scrambler to the gh S57 of the scrambler shi		
C/ 142 SC 142.2.5.	3 P133	L <b>24</b>	# 560	2) Replace t	he definition	of ResetScrambler() functio	n in 142.3.5.3 w	vith a new function
Kramer, Glen	Broadcom			ResetDescr	ambler			
accurately reflect the t function FecEncode. 7 (which take relatively I	Comment Status A med FecDecode to PassToFer behavior of the function. We sh These functions do not perform ong time in LDPC). These fnct other and return immediately.	ould do the san any action of e	ne with its counterpart ncoding or decoding	i.e., each of 49–10).	This function the bits S0 th	n resets the descrambler to hrough S57 of the descramb ResetScrambler() with Rese	ler shift register	r is set to 1 (see Figu
uggestedRemedy				4) In 140.0 (	) rankaa tha	a contance "In the ONILL of th	a baginning of	and hurst the
lines that set TxInput<	o PassToFecEncoder in 142.2 256:0> and TxInput<257> to b e shown in kramer_3ca_3_091	e next to each c			initialized wi	e sentence "In the ONU, at the the value of 0x3-(FF)7, i.e 3)."		
Response ACCEPT.	Response Status C			"In the ONU		nning of each burst, the scra of ResetScrambler() function		o a known initializatio
C/ 142 SC 142.2.5.	3 P133 Broadcom Comment Status A	L <b>32</b>	# 555		is initialized	e sentence "In the OLT, at th with the value of 0x3-(FF)7, 9–8)."		
	PassToPMA(v) mentions PMA_		equest( v ), which is in	"In the OLT, initialization	at the begin value (see th	ning of each burst, the desc ne definition of ResetDescra	rambler is reset mbler() function	to a known in 142.3.5.3)."
	eference would be very helpful	nere.		Response		Response Status C		
UndestedRemodu	after "PMA_UNITDATA[i].requ	est( v )"		ACCEPT.				
<b>33</b>								
SuggestedRemedy Add "(see 142.4.1.1)" Response ACCEPT.	Response Status C							

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/ 142 SC 142.2.5.3 Page 12 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142 SC 142.	5.5.1	P139	L16	# 582	C/ 142	SC ·	142.4	P <b>144</b>	L <b>47</b>	# <u>564</u>
Vienckowski, Natalie		General Motors			Kramer, G	len		Broadcom		
Comment Type ER	Commen	t Status A			Comment	Туре	т	Comment Status A		
	between numbe	ers in tens or hund	eds of thousar	anual: Use spaces nds (e.g., 62 000, 100 ot a comma, period, or	PMA. I	nstead	it focuse:	out of place. This section sh s only of the deifferential enco nfusing and serves no purpos	ding, which is	
SuggestedRemedy						ut bits re		changes to succeeding input		an in respect to a given
Change: 16,962 To: 16 962					Suggested	Remed	<i>y</i>			
Response	Response	Status W			Use the	e follow	ving text:			
ACCEPT.	5.5.4	P <b>144</b>	L1	# 558	141.34 Nx25G	) to the -EPON	257-bit v operates	erial PMD service interface (F vide interface of the PCS (PM s over multiple channels, the F	A_UNITDATA, PMA sublayer i	see 142.4.1). Where ncludes multiple
Kramer, Glen		Broadcom			identic	al insta	nces of th	ne transmit data path and/or th	ne receive data	path.
Comment Type TR Comment #485 ag blocking function t exit conditions from conditions to be te conditions evaluate	ainst D2.0 was co nat takes 257 bit n this block are te sted simultaneou	times to execute. Nested. This causes	While this funct the SignalFail	tion is executing, no and MatchFound	encodi Iower b <i>Response</i>	ng optio bandwic	on (see 1	ction (from the OLT to the ON 42.4.2 and 142.4.3). This enc ers at the ONUs. <i>Response Status</i> <b>C</b> E.	<i>,</i> · ·	
SuggestedRemedy					l leo th	o follow	ving text:			
change the State of	iagram 142-15 a	s shown in kramer	_3ca_2_0919.	pdf.			U			
Response ACCEPT.	Response	Status C			141.3.4 Nx25G identica In the o encodi	4) to the G-EPON al insta downstr ng optic	e 257-bit operates nces of th ream dire on (see 1	erial PMD service interface (F wide interface of the PCS (PM s over multiple channels, the F ne transmit data path and/or the ction (from the OLT to the ON 42.4.2 and 142.4.3). This enc ers at the ONUs.	IA_UNITDATA PMA sublayer in ne receive data IUs), the PMA i	, see 142.4.1). Where ncludes multiple path. ncludes a differential
					C/ 142	SC ·	142.4.1.1	.1 <i>P</i> 146	L <b>52</b>	# 566
					Kramer, G	len		Broadcom		
					Comment In "PC		E smit State	<i>Comment Status</i> <b>D</b> Diagram", the "state diagram	n" should be lov	conser ver case
					<i>Suggested</i> Chang		ly ver case			
					Proposed I	Respon	se	Response Status W		

C/ 142 SC 142.4.1.1.1 Page 13 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 142 SC 142.4.1.2.1 P146 L45 # 603	Cl 143 SC 143.3.1.2.3 P165 L36 # 509
Anslow, Pete Ciena	Hajduczenia, Marek Charter Communications
Comment Type E Comment Status D consent	Comment Type E Comment Status D conser
"Figure 142-15" should be a cross-reference	Inconsistent primitive formatting. We had rules on variable formatting, etc. but right now it
SuggestedRemedy	seems that primitives are formatted inconsistently. In some locations, the whole primitive is italicised, in others it is not.
Change "Figure 142-15" to be a cross-reference	SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	For consistenty, it seems a better approach would be to italicize names of primitives as a whole.
C/ 142 SC 142.4.2 P148 L1 # 546	Proposed Response Response Status W PROPOSED ACCEPT.
Powell, William Nokia	
Comment Type T Comment Status A	C/ 143 SC 143.3.3.3 P170 L32 # 510
A D2.0 commenter expressed concern over this section:	Hajduczenia, Marek Charter Communications
<ul> <li>Not sure if we're dealing with serial bits or 257b vectors</li> <li>Not happy with Fig. 142-19 Figure output going to the PMA (already in the PMA)</li> </ul>	Comment Type E Comment Status D conser Compount adjective: application specific
SuggestedRemedy	
Implement the proposed Fig. 142-19 and 142-20 changes shown in RED in powell_3ca_1_0919.pdf	SuggestedRemedy Change to "application-specific"
Response Response Status C ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 142A SC 142A.2 P266 L22 # 534	Cl 143 SC 143.3.3.4 P170 L36 # 537
Lynskey, Eric Broadcom	Lynskey, Eric Broadcom
Comment Type T Comment Status A Table 142A-6 shows the bits Post Interleaver.	Comment Type         T         Comment Status         A         Encryptic           Add Encryption Enable and Encryption Key variables in the correct alphabetical order.         Encryptic
SuggestedRemedy	SuggestedRemedy F
Change Pre to Post.	E Type: integer
Response Response Status C ACCEPT IN PRINCIPLE.	Description: Reserved for encryption. K
Changes per comment + change "Pre Interleaver" to "pre-Interleaver" + change "Post	Type: integer Description: Reserved for encryption.
Interleaver" to "post-Interleaver" in Annex 142A.	Response Response Status C ACCEPT IN PRINCIPLE.

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/ 143 SC 143.3.3.4 Page 14 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 143	SC 143.3.3.4	P <b>171</b>	L <b>41</b>	# 547		C/ 143	SC 143.3.3.	5 P1	72	L <b>20</b>	# 568
owell, Willi	iam	Nokia				Kramer, G	len	Broad	dcom		
omment Ty	ype E	Comment Status D			consent	Comment	Type <b>TR</b>	Comment Status	Α		
	Last Sentence: ue of this variabl	le is synchronized to wRow a	and is equal			Conve draft. Suggested		142-1 are not applied	consister	ntly to code frag	ments throughout th
WROW -	1.						conventions to:				
Missing	preposition "to"							unction, page 172			
ggestedR	Remedy					,	MacBlock() fund	unction, page 172 ction, page 173			
The valu -or- The valu oposed Re	ue of this variabl	le is synchronized to wRow a le is synchronized to wRow a <i>Response Status</i> <b>W</b> IN PRINCIPLE.	·			5) IsMi 6) Outj 7) Proc 8) Reg 9) Getl	Allowed variabl	tion, page 179 ction, page 179 () function, page 198			
Change	wording to:					Response		Response Status	с		
		le is synchronized to wRow a	and is equal to w	/Row - 1.		ACCEI	PT IN PRINCIP	•			
						0	e in Table 142– rom "State diag		erators u	sed in state diag	grams and functions
						- chang - add " - chang entry ir Update	ge "=" to "==" (e '=" after "<=" (sa ge "Assignment n the same row e in state diagra	equals) ame row) operator" to "Assignr "Assignment operator ms: change "=" to "==	nent oper · (in funct :".	ator (in state di ion code)"	agrams)" + add a ne
						- chang - add " - chang entry ir Update Update	ge "=" to "==" (e '=" after "<=" (sa ge "Assignment n the same row e in state diagra	equals) ame row) operator" to "Assignr "Assignment operator ms: change "=" to "== Trigger and RegAllow	nent oper · (in funct :".	ator (in state di ion code)"	agrams)" + add a ne
						- chang - add " - chang entry ir Update Update	ge "=" to "==" (e '=" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration	equals) ame row) operator" to "Assignr "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts.	nent oper (in funct ". ed functio	ator (in state di ion code)"	agrams)" + add a ne
						- chang - add " - chang entry ir Update Update	ge "=" to "==" (e =" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration unctions for pot SC 143.3.3.	equals) ame row) operator" to "Assignr "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts.	nent oper ' (in funct '''. ed functio	rator (in state dia ion code)" ons to match ne	agrams)" + add a ne ew conventions. Scru
						- chang - add " - chang entry ir Update Other fr C/ 143 Lynskey, E Comment	ge "=" to "==" (e =" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration unctions for pot SC 143.3.3. Eric Type T	equals) ame row) operator" to "Assignm "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts. 5 P1 Broad <i>Comment Status</i>	nent oper (in funct ed function 72 A	rator (in state di ion code)" ons to match ne <i>L</i> 25	agrams)" + add a ne ew conventions. Scru # <u>535</u>
						- chang - add " - chang entry ir Update Other fr C/ 143 Lynskey, E Comment	ge "=" to "==" (e =" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration unctions for pot SC 143.3.3. Eric Type T in the draft, it is	equals) ame row) operator" to "Assignm "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts. 5 P1 Broad	nent oper (in funct ed function 72 A	rator (in state di ion code)" ons to match ne <i>L</i> 25	agrams)" + add a ne ew conventions. Scru # <u>535</u>
						- chang - add " - chang entry ir Update Other for C/ 143 Lynskey, E Comment Earlier	ge "=" to "==" (e =" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration unctions for pot SC 143.3.3. Eric Type T in the draft, it is here.	equals) ame row) operator" to "Assignm "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts. 5 P1 Broad <i>Comment Status</i>	nent oper (in funct ed function 72 A	rator (in state di ion code)" ons to match ne <i>L</i> 25	agrams)" + add a ne ew conventions. Scru # <u>535</u>
						- chang - add " - chang entry ir Update Update Other fr C/ 143 Lynskey, E Comment Earlier shown Suggested In both	ge "=" to "==" (e =" after "<=" (sa ge "Assignment n the same row e in state diagra e Deregistration unctions for pot SC 143.3.3. Eric Type T in the draft, it is here. IRemedy	equals) ame row) operator" to "Assignm "Assignment operator ms: change "=" to "== Trigger and RegAllow ential conflicts. 5 P1 Broad <i>Comment Status</i> s stated that bit 17 is s	nent oper (in funct ed function 72 dcom A set to 0 by	rator (in state di ion code)" ons to match ne <i>L</i> 25	agrams)" + add a ne ew conventions. Scru # <u>535</u>

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IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 143	SC 143.3.3.5	P172	L <b>27</b>	# 536	C/ 143	SC 1	43.3.4.4		P179	L <b>42</b>	# 511
Lynskey, E	Eric	Broadcom			Hajduczer	nia, Mare	ek		Charter Comr	nunications	
Comment		Comment Status <b>A</b> eviously defined in 143.3.2, b	ut there is no w	Encryption	Comment		E 6 fixed on		t Status <b>D</b>	nore instance is r	conse
	the ESH or ECH.			ay to set either of these					i the diait, one h	Iore instance is r	llissing
Suggested	Remedy				Suggested	-	•	). octet inde	ax < 8 " to "octet	_index = 0; octet	index < 8."
hdr<46	h EnvContHeader 6> = E; // Encrypt 7> = K; // Encrypt				Proposed	Respon	_	. –	Status W	_index = 0, ociet	,
Response		Response Status <b>C</b>				SC 4	42.2.4.4		<b>D400</b>	17	# 607
ACCE	PT IN PRINCIPL	Ε.			C/ 143		43.3.4.4		P180	L <b>7</b>	# 567
In both	n EnvContHeader	and EnvStartHeader, add:			Kramer, G Comment		-	Common	Broadcom t Status A		
hdr<46	6> = EncEnable;	// Encryption enabled flag								tet function aivin	g the exact details of
hdr<47	<pre>/&gt; = EncKey; // E</pre>	ncryption key index			how a	data oc	tet is cons	tructed from	n multiple PLS_E	DATA.requests. E	But we only have very
		ge "E" to "E - Encryption ena to "K - Encryption key index						inition for th MAC 1 bit a		function. No deta	ils are given on how 8
140.0.	o,, change it			1-5.5.5.7	Suggested	Remed	y				
	ariables in 143.3.	3.4 as follows:							tet with the defin he italics and ma	ition provided in ake the links live.	
EncEn Type:	able Boolean				Response				Status C		
		enabled flag, not for use by I	EEE Std 802.3.		ACCE	PT.					
EncKe	y one-bit integer				C/ 143	SC 1	43.3.4.5.2	2	P <b>182</b>	L17	# 538
		key index, not for use by IEE	E Std 802.3.		Lynskey, I	Eric			Broadcom		
C/ 143	SC 143.3.3.6	1 P175	L <b>23</b>	# 556	Comment	• •	т		t Status A		
Kramer. G		Broadcom				0		CESS_HEA	DER state of Fig	ure 143-16 shoul	d be flipped.
Comment		Comment Status A			Suggested	-	,				
		as a transition labelled "Linklo	d[wCol] != 0x00-	00". We have defined	Chang	ge to Ou	tEQ<63:48	3> and OutE	EQ<39:18>.		
		x00-00. It is called ESC_LLID			Response			Response	Status C		
Suggested	lRemedy				ACCE	PT.					
2) Add ESC_I	the following det	12 with the one shown in kra inition to 143.3.3.3:	mer_3ca_1_091	9.pdf							
<b>D</b>		Response Status <b>C</b>									
Response											

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/ 143 SC 143.3.4.5.2 Page 16 of 23 9/10/2019 3:30:20 PM

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C/ 143 SC 143.3.4.5.2 P182 L22 # 559	C/ 143 SC 143.4.1.2 P186 L8 # 505
Kramer, Glen Broadcom	Hajduczenia, Marek Charter Communications
Comment Type TR Comment Status A	Comment Type ER Comment Status A
State diagram 143-16 misses a label in a transition from INSERT_PREAMBLE to	Editor's note with no text at this time.
CHECK_ENV_SIZE	SuggestedRemedy
SuggestedRemedy	
Add label UCT	Response Response Status C
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT.	See comment #608.
C/ 143 SC 143.4.1.2 P185 L8 # 608	
Kramer, Glen Broadcom	C/ 143 SC 143.5.4.2 P189 L17 # 539
Comment Type TR Comment Status A post-deadline;	
Editor's note requires a new sub-clause 143.4.4 on Asymmetric rate operation to be provided.	Comment Type <b>T</b> Comment Status <b>A</b> Missing PICS. There are four shall statements in 143.4.1.1, but only three PICS entries
SuggestedRemedy	SuggestedRemedy
SuggestedRemedy 1) Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf. 2) Make cross-reference link live	SuggestedRemedy EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:M 50G25G:M or 50G50G:M - Yes [] N/A []
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live</li> <li>Remove editor's note</li> </ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N
1) Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.     2) Make cross-reference link live     3) Remove editor's note Response Response Response C	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A []
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live</li> <li>Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> </ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live</li> <li>Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> <li>Add sub-clause 143.4.4 as shown in</li> </ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. C/ 144 SC 144.3.1.1 P202 L31 # 605
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live</li> <li>Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> <li>Add sub-clause 143.4.4 as shown in http://www.ieee802.org/3/ca/public/meeting_archive/2019/09/kramer_3ca_8_0919.pd the following changes</li> </ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. C/ 144 SC 144.3.1.1 P202 L31 # 605 Anslow, Pete Ciena Comment Type E Comment Status D c
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live         <ol> <li>Remove editor's note</li> </ol> </li> <li>Response Response Status C         <ol> <li>ACCEPT IN PRINCIPLE.</li> <li>Add sub-clause 143.4.4 as shown in             <ol></ol></li></ol></li></ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. C/ 144 SC 144.3.1.1 P202 L31 # 605 Anslow, Pete Ciena Comment Type E Comment Status D c
<ul> <li>1) Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>2) Make cross-reference link live</li> <li>3) Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> <li>1) Add sub-clause 143.4.4 as shown in http://www.ieee802.org/3/ca/public/meeting_archive/2019/09/kramer_3ca_8_0919.pd the following changes</li> <li>- insert the following sentence before "The usage of the placeholder": "The padding are interleaved with information EQs using the following pattern:</li> <li>- information EQ&gt; <padding eq=""> <padding eq=""> <information eq=""> <padding eq="">.".</padding></information></padding></padding></li> <li>- change "2 or 3 EQs" to "alternating 2/3 EQs"</li> <li>- ineplace "placeholder" with "padding"</li> <li>2) Make cross-reference link live</li> </ul>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. C/ 144 SC 144.3.1.1 P202 L31 # 605 Anslow, Pete Ciena Comment Type E Comment Status D c The IEEE style manual has: "Only one occurrence of any level of an ordered list may be presented in any subclaus avoid confusing cross-references [e.g., it is OK to have an a) level list followed by a 1) list , etc., but there should not be more than one a) level list in the same clause or
<ol> <li>Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>Make cross-reference link live</li> <li>Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> <li>Add sub-clause 143.4.4 as shown in http://www.ieee802.org/3/ca/public/meeting_archive/2019/09/kramer_3ca_8_0919.pd the following changes</li> <li>insert the following sentence before "The usage of the placeholder": "The padding are interleaved with information EQs using the following pattern:</li> <li>change "2 or 3 EQs" to "alternating 2/3 EQs"</li> <li>replace "placeholder" with "padding"</li> </ol>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. Cl 144 SC 144.3.1.1 P202 L31 # 605 Anslow, Pete Ciena Comment Type E Comment Status D c The IEEE style manual has: "Only one occurrence of any level of an ordered list may be presented in any subclaus avoid confusing cross-references [e.g., it is OK to have an a) level list followed by a 1) list, etc., but there should not be more than one a) level list in the same clause or subclause]."
<ul> <li>1) Add sub-clause 143.4.4 as shown in kramer_3ca_8_0919.pdf.</li> <li>2) Make cross-reference link live</li> <li>3) Remove editor's note</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> <li>1) Add sub-clause 143.4.4 as shown in http://www.ieee802.org/3/ca/public/meeting_archive/2019/09/kramer_3ca_8_0919.pd the following changes</li> <li>- insert the following sentence before "The usage of the placeholder": "The padding are interleaved with information EQs using the following pattern:</li> <li>- information EQ&gt; <padding eq=""> <padding eq=""> <information eq=""> <padding eq="">.".</padding></information></padding></padding></li> <li>- change "2 or 3 EQs" to "alternating 2/3 EQs"</li> <li>- replace "placeholder" with "padding"</li> <li>2) Make cross-reference link live</li> </ul>	EPON4 - Channel bonding - 143.4.1.1 - Device supports channel bonding - 50G10G:N 50G25G:M or 50G50G:M - Yes [] N/A [] Response Response Status C ACCEPT. C/ 144 SC 144.3.1.1 P202 L31 # 605 Anslow, Pete Ciena Comment Type E Comment Status D c The IEEE style manual has: "Only one occurrence of any level of an ordered list may be presented in any subclaus avoid confusing cross-references [e.g., it is OK to have an a) level list followed by a 1) list , etc., but there should not be more than one a) level list in the same clause or subclause]." SuggestedRemedy

C/ 144 SC 144.3.1.1

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 144	SC 144.3.1	.1 P202	L <b>33</b>	# 604	C/ 144 SC 144	3.6.1	P <b>208</b>	L <b>44</b>	# 612
Anslow, F	Pete	Ciena			Kramer, Glen		Broadcom		
Comment	Type E	Comment Status D		consent	Comment Type T	Comment	Status D		post-deadline
IEEE	uses an en-das	sh as a minus sign				comment #213 agai			
Suggeste	dRemedy					nestamp should be	corrected and	will therefore be	different."
00	-	gns to en-dashes (Ctrl-q Sh	ft-p) (5 instances)		•				ocal time counter. Each
Proposed	Response	Response Status W			timestamp is pre-	compensated by th	e RTT value of	the destination	UNU."
PROF	POSED ACCEF	РТ.			This comment ad	dresses the above	issues.		
C/ 144	SC 144.3.1	.2 P204	L <b>3</b>	# 610	SuggestedRemedy				
Kramer, C	Glen	Broadcom	I		Change the defini kramer_3ca_12_(		fields in GATE	and REGISTE	R_ACK as shown in
Comment	Type TR	Comment Status D		post-deadline; 573		o rotpan			
Since	the reference	or MPCPDU timestamp is t	he ESH time, an M	PCPDU cannot be split	The definitions for	rest of the fields a	ppears correct.		
		bes, either separated in time			Proposed Response	Response	Status <b>W</b>		
	•	vill cause the Timestamp to e second ESH at the receiv		-	PROPOSED ACC	EPT.			
•		and parsed and timestamp prwrite the first ESH time)	s checked, the sec	cond ESH time will be	5				R_ACK as shown in r_3ca_12_0919.pdf.

#### SuggestedRemedy

Add clarifications and specific requirements to avoid spltting MPCPDUs over multiple envelopes. Specific changes are shown in kramer\_3ca\_9\_0919.pdf.

This comment is intended to supersede comment #573 and it provides a more complete solution.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Implement changes per http://www.ieee802.org/3/ca/public/meeting\_archive/2019/09/kramer\_3ca\_9\_0919.pdf

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/ 144 SC 144.3.6.1 Page 18 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 144	SC 144.3.6.1	P <b>209</b>	L12	# 571	C/ 144	SC 144.3	6.1	P <b>209</b>	L <b>39</b>	# 573
ramer, Gler	า	Broadcom			Kramer, Gle	en		Broadcom		
omment Ty	pe E	Comment Status D		consent	Comment T	ype TR	Comr	nent Status D		57
Where a should us vector nc uggestedRe 1) Table 2) Table 3) Table 4) Table 6) Table 6) Table 6) Table 8) Table 8) Table 9) Table 10) Table 11) Table 12) Table	subset of bits se the notation tation used the amedy following cha 144-2: change 144-4: change 144-7: change 144-8: change 144-8: change 144-8: change 144-8: change 144-8: change 144-8: change 144-11: change 144-11: change 144-12: change	s taken to represent a single "M:N" instead of "N to M". Th oughout the draft. "2 to 7" to "7:2" "3 to 4" to "4:3" "7 to 15" to "15:7" "3 to 4" to "4:3" "7 to 13" to "13:7" "0 to 1" to "1:0" "3 to 4" to "4:3" "5 to 6" to "6:5" "8 to 14" to "14:8" ge "0 to 3" to "3:0" ge "4 to 6" to "6:4" ge "0 to 7" to "7:4"			MPCPE A fragm an ESH timestal which m SuggestedF The dra at the e "If the v equal ze Add PIC Proposed R	DUs are not a nented MPC is received mp in fragm mp is parse neans the M Remedy ft shall spec nd of definit alue of <i>L cro."</i>	allowed to be PDU would b a new MPC ented MPCP d out of an M PCP time wil ify that MPC on of "Fragm LID	e fragmented, as thi e transmitted in two P time is latched, o DU may reference f PCPDU and check I already be overwr PDU shall not be fra nentation" flag (new represents a PLID,	o or more PLID e verwriting the pre- the time of the fir ed after the entire itten by the later agmented. Add th paragraph):	nestamping reference. nvelopes. Every time evious time. A st ESH, but this e MPCPDU is received
roposed Re PROPOS	sponse SED ACCEPT.	Response Status W			See pos Cl 144 Lynskey, Ei	SC 144.3	omment #61 <b>6.1</b>	0 P <b>210</b> Broadcom	L31	# 533
					Comment T	ype <b>T</b>	Comr s extra EnvA	nent Status D		
					SuggestedF Remove	Remedy e EnvAlloc[7	].			
					Proposed R	esponse SED ACCE	,	nse Status W		

C/ 144 SC 144.3.6.1

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 144 S	C 144.3.6.1	P <b>210</b>	L <b>31</b>	# 570	C/ 144	SC ·	144.3.6.3	P <b>213</b>	L <b>39</b>	# 530
Kramer, Glen		Broadcom			Lynskey, I	Eric		Broadcom		
Comment Type	e TR	Comment Status D			Comment	Туре	т	Comment Status D		
GATE and of 7.	REPORT MF	PCPDU figures are showing 8	EnvAlloc/LlidS	tatus elements instead	Figure Suggested			incorrect pad length.		
SuggestedRem		n figure 144.10				ge to 33	•			
Remove EnvAlloc[7] from figure 144-12 Remove LlidStatus[7] element from figure 144-13				Proposed Response Response Status W						
Proposed Resp	oonse	Response Status W			PROP	OSED /	ACCEPT.			
PROPOSE	D ACCEPT.				C/ 144	SC ·	144.3.6.7	P <b>219</b>	L <b>46</b>	# 606
C/ 144 S	C 144.3.6.2	P <b>211</b>	L <b>35</b>	# 531	Kramer, G	Blen		Broadcom		
Lynskey, Eric		Broadcom			Comment TypeTComment StatusDpost-deadlingAllowing the SYNC_PATTERN MPCPDUs to be sent to registered ONUs creates a lot of ambiguity wrt the time of switching and handling of lost messages. It also may require dual comparators in the OLT PCS to simultaneously hunt for the old and new patterns. If we keep this capability, we need to add a significant amount of details on how the ONU and OLT should process the switch (wait for all SPs and swich once? Switch on each SYNC_PATTERN one SPn at a time?) To clarify this we probably will need 2 new state diagrams.				post-deadline	
Comment Type Figure 144 SuggestedRem Change to Proposed Resp	-13 shows inc <i>nedy</i> 5 octets.	Comment Status D correct LlidStatus[0] length. Response Status W								
	D ACCEPT.				Suggested	dRemed	У			
C/ 144 S	C 144.3.6.2	P211	L <b>47</b>	# 532				after Discovery. To do that, ete the paragraph on lines 4		(unless changed by the
Lynskey, Eric		Broadcom			Proposed	Respon	se	Response Status W		
Comment Type Figure 144-		Comment Status D tra LlidStatus[7].			PROP	OSED /	ACCEPT.			
SuggestedRem Remove Lli										
Proposed Resp	oonse D ACCEPT.	Response Status W								

C/ 144 SC 144.3.6.7 Page 20 of 23 9/10/2019 3:30:20 PM

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/144 SO	C 144.3.6.7	P <b>221</b>	L <b>14</b>	# 613	C/ 144	SC 144.3.7	P <b>222</b>	L <b>32</b>	# 572
Kramer, Glen		Broadcom			Kramer, Gle	n	Broadcom		
omment Type	TR	Comment Status D		post-deadline	Comment Ty	vpe <b>T</b>	Comment Status D		
description. be in Patter	We should on the work of the should of the work of the should be a should be should be a should be sho	TTERN MPCPDU shows fit ecide whether we want to sl the first octet in the filed Pa	now the second attern (this is what	octet of PatternInfo to at the figure assumed).	in state	diagrams.	144.3.7 is very confusing and c		
144-22, who	ere we have t	ield may make it more align hese statements <== MsgBurstSync.Value[Sp		diagrams 144-20 and	REGIST	ER_REQ/NAG	to deregister, it deregisters und CK to the OLT is just a courtes		nding
IVISYSYNCE	allem.value		JSeqJ		SuggestedR	-			
0		Seq] MsgSyncPattern.Valu	le,		Replace Observe		graph in 144.3.7 with the text p	ovided in kram	er_3ca_6_0919.pdf.
(both 'Value	e' fields are 2	57-bit patterns.)			Proposed Re	esponse	Response Status W		
SuggestedRem	•				PROPO	SED ACCEPT	Г.		
Two options	s are suggest	ed:			C/ 144	SC 144.3.7.	7 P <b>230</b>	L <b>27</b>	# 554
The first option is shown in kramer_3ca_11_0919.pdf. It moves the last octet of PatternInfo				ast octet of PatternInfo	Kramer, Gle	n	Broadcom		
to be part of Pattern field.					Comment Ty	vpe TR	Comment Status D		
		own in kramer_3ca_13_091			State dia	agram 144-21	uses not-existent flag value "D	eregister"	
		tie last bit of PatternInfo an ch is used in state diagrams			SuggestedR	emedy			
bit field out			20 and 14	+ <i>LL</i> .	Replace	"Deregister" \	with "NACK"		
The author	prefers the fi	st solution.			Proposed Re	esponse	Response Status W		
Proposed Resp PROPOSE		Response Status W NPRINCIPLE.			•	SED ACCEPT	•		
Implement	ahanaaa nar				C/ 144	SC 144.3.8	P <b>232</b>	L <b>3</b>	# 575
	changes per ieee802.org/3	/ca/public/meeting_archive/	2019/09/kramer	3ca 11 0919.pdf	Kramer, Gle	n	Broadcom		
•	C 144.3.7	P221	L <b>32</b>	·	Comment Ty	vpe E	Comment Status D		cons
	0 144.3.7		L <b>32</b>	# 607	A couple	e of missing co	ommas in sub-clause 144.3.8		
ramer, Glen		Broadcom			SuggestedR	emedy			
omment Type		Comment Status D		post-deadline	Insert th	e following co	mmas:		
	attern structu	e is not used anywhere in the e.	e draft. The corre	ect name is	1) Aftor	"As noted in 1	44.1.1.1", line 3		
							tate diagram (see 144.3.8.11)	which results",	line 25
JaaestedRem	-	with <i>MsgSyncPattern</i>	(3 instances)		Proposed Re	esponse	Response Status W		
	>5pvalue		· · · · · · · · · · · · · · · · · · ·		-		·		
uggestedRem Replace <i> roposed Resp</i>	•	Response Status W			PROPO	SED ACCEPT	Г.		

C/ 144 SC 144.3.8

IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

C/ 144	SC 144.3.8	P <b>232</b>	L <b>28</b>	# 574
Kramer, G	len	Broadcom		
Comment	Type E	Comment Status D		conse
	nce "In the OLT tr ter, should be re-p	ansmission is continuous,' hrased.	either needs a	comma after the OLT,
Missin	ig comma after "Ir	the case of the OLT"		
	•	rence to the OLT process, but is missing a refe	erence to the En	velope Activation
Suggested	dRemedy			
Chang	ge the paragraph s	taring with "Grants are not e	xplicitly used by	the OLT" with
144.3. of the issuing descri	8.11) in a manner OLT, the transitio g of an envelope o ptor is processed	process (see 144.3.8.9), and similar to how these process in from Inter-Envelope Idle to lescriptor by the OLT MPMC by the OLT Envelope Comm as described for the ONU."	ses are used in t data transmissi Client (MPCP).	the ONUs. In the case on begins with the The envelope
Proposed	,	Response Status W		
PROP	OSED ACCEPT.			
C/ 144	SC 144.3.8.1	P <b>232</b>	L <b>42</b>	# 583
Wienckow	/ski, Natalie	General Motor	S	
Comment	Type ER	Comment Status D		
instea	d of commas betv	ves clarity, follow the IEEE E veen numbers in tens or hum oups should be separated by	dreds of thousar	nds (e.g., 62 000, 100
Suggested	dRemedy			

Change: 6,400

To: 6 400 or 6400 as 4 digit numbers don't have to have the space unless they are in a column with larger numbers.

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change: 6,400 To: 6 400

144 SC 144.3.8.1 P232 L49 # 584 ienckowski, Natalie General Motors omment Type ER Comment Status D In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000). The groups should be separated by a space, and not a comma, period, or dash. uggestedRemedy Change: 19,531,250 To: 19 531 250 roposed Response Response Status W PROPOSED ACCEPT. SC 144.4.3.1 P245 L17 144 # 552 emein, Duane independent omment Type TR Comment Status D Persistenly disabling all downstream or all upstream channels to an ONU results in that ONU being unusable. The user should be warned of this. This comment is submitted as an alternative solutio to unsatisfied comment # 249 and # 253 uggestedRemedy Add a note to Table 144-11 to read as follows: NOTE - Persistently disabling all downstream or all upstream channels of an ONU results in that ONU being unusable requiring replacement or repair. roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add a note to Table 144-11 to read as follows: NOTE-Persistently disabling all downstream channels in an ONU makes that ONU nonoperational and may require ONU replacement or a specific re-initialization via a local craft port. Persistently disabling all upstream channels in an ONU (but not all downstream channels) also makes that ONU non-operational. However, it may be possible to re-

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/ 144 SC 144.4.3.1

initialize such ONU remotely. Both the remote and the local re-initialization procedures are

outside the scope of this standard

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# Proposed Responses IEEE P802.3ca D2.1 25/50G-EPON Task Force 1st Working Group recirculation ballot comments

CI A	SC A	P <b>27</b>	L <b>1</b>	# 595
Anslow, I	Pete	Ciena		
Commen	t Type ER	Comment Status A		
		802.3-2018 place all of the an case in D2.0 for Annex 31A)	nnexes at the e	nd after all of the
00	edRemedy e Annex A and A	nnex 31A between Clause 144	and Annex 14	2A
Respons	e	Response Status W		

ACCEPT.

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 A SC A Page 23 of 23 9/10/2019 3:30:21 PM