C/1 SC 1.4	P20	L17	# 550	C/ 1 SC 1.4.24	4b P21	L16	# 552
Hajduczenia, Marek	Charter Com			Hajduczenia, Marek	Charter Com		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
Clarify editorial instruction	on			There are only two a	added definitions that do not sta	art with a complete	sentence.
SuggestedRemedy				SuggestedRemedy			
Change "Change definit	ion 1.4.278" to read "Change	e definition 1.4.2	78 as shown below"		sion window allocated to a sing		
Proposed Response	Response Status O			(including GLID)"	location represents a transmiss	sion window allocat	ted to a single LLID
				Proposed Response	Response Status O		
C/ 1 SC 1.4.129a	P <b>21</b>	L <b>7</b>	# 520				
Vey, Jun Shan	ZTE TX			C/ 1 SC 1.4.31	3 P <b>20</b>	L <b>31</b>	# 551
Comment Type E	Comment Status X			Hajduczenia, Marek	Charter Com	municatio	
	clear that N is either 1 or 2. lied. The document should b			Comment Type <b>T</b> Clarification on what	<i>Comment Status</i> <b>X</b> t "it" means in the context		
SuggestedRemedy				SuggestedRemedy			
	ation in this definition, or else			Change "it is also a	collective term" to "an LLI is als	so a collective term	n"
	and 2 are normative in this s amples for illustration purpo		values of N are	Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 1 SC 1.4.33		L <b>26</b>	# 553
C/ 1 SC 1.4.244a	P <b>21</b>	L11	# 417	Hajduczenia, Marek	Charter Com	municatio	
Remein, Duane	Huawei			Comment Type TR	Comment Status X		
comment Type TR	Comment Status X				need to align the terminology		
This definition misses the	ne fact that an envelope is ch	annel specific.		SuggestedRemedy			
SuggestedRemedy				•	RS" to "Multi-Channel RS (MC	RS)"	
Change from:				Proposed Response	Response Status 0		
"In Multi Channel Deser	nciliation Sublayer (MCRS, s						
encapsulates data belor specific MAC instance."							
encapsulates data belor specific MAC instance." "In Multi-Channel Recor	nciliation Sublayer (MCRS, s						
encapsulates data belor specific MAC instance." "In Multi-Channel Recor encapsulates data belor	nciliation Sublayer (MCRS, s nging to a specific LLID bein r idles sourced from a specif	g transmitted on	a specific MCRS				

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E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **1** SC **1.4.333a**  Page 1 of 32 8/28/2018 6:40:13 AM

C/1 SC 1.4.333	Ba P21	L <b>26</b>	# 554	C/ 56 SC 56.1	P <b>25</b>	L13	# 521
lajduczenia, Marek	Charter Com	municatio		Wey, Jun Shan	ZTE TX		
Comment Type E	Comment Status X			Comment Type ER	Comment Status X		
There are only two a	dded definitions that do not sta	art with a complet	e sentence.	"Figure 56-5 for Nx2	25G-EPON topologies." shou	ld be Figure 56-5a	а.
SuggestedRemedy				SuggestedRemedy			
	mber of defined paths" to "In C	Clause 143, an M	CRS channel	"Figure 56-5a for N	25G-EPON topologies."		
	number of defined paths" 143)" at the end of the definitio	n		Proposed Response	Response Status O		
Proposed Response	Response Status <b>0</b>						
				C/ 56 SC 56.1.2.1	P <b>27</b>	L <b>6</b>	# 519
7 31A SC 31A	P <b>22</b>	L <b>8</b>	# 418	Powell, Bill	Nokia		
emein, Duane	Huawei			Comment Type T	Comment Status X		
Comment Type E	Comment Status X				Multipoint MAC Control Proto to this clause, which refers to		
In multiple places the	e term "modify" is used in edito				ine MPMC as "Multipoint MA		and several places I
•	t that the term "change" is pref	erred per the WG	FTemplate.	SuggestedRemedy			
uggestedRemedy							
				Possible solutions:			
Change all instances	s of "modify" to "change" in edi	ting instructions r	now.	(1) Change the title of	CL56.1.2.1 to "Multipoint MA	C Control (MPCP	& MPMC)
Change all instances	s of "modify" to "change" in edi Response Status <b>O</b>	ting instructions r	now.	<ul><li>(1) Change the title of OR</li><li>(2) Create a new sub</li></ul>	clause 56.1.2.1a (insert betw	een current 56.1.2	2.1 & 56.1.2.2) to
Change all instances	, ,	ting instructions r	now.	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO</li> </ul>	clause 56.1.2.1a (insert betw N's use of MPMC. Also move	een current 56.1.2	2.1 & 56.1.2.2) to
	, ,	ting instructions r	now. # 518	<ul><li>(1) Change the title of OR</li><li>(2) Create a new sub</li></ul>	clause 56.1.2.1a (insert betw N's use of MPMC. Also move	een current 56.1.2	2.1 & 56.1.2.2) to
Change all instances proposed Response	Response Status O			<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion</li> </ul>	clause 56.1.2.1a (insert betw N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru	een current 56.1.2 e the Nx25G EPO	2.1 & 56.1.2.2) to N text in both
Change all instances Proposed Response Cl 56 SC 56.1 Powell, Bill	Response Status O			<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stro ption above.	een current 56.1.2 e the Nx25G EPO	2.1 & 56.1.2.2) to N text in both
Change all instances roposed Response 56 SC 56.1 owell, Bill comment Type TR The current Figure re	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F	L13	# 518	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion</li> </ul>	clause 56.1.2.1a (insert betw N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru	een current 56.1.2 e the Nx25G EPO	2.1 & 56.1.2.2) to N text in both
Change all instances roposed Response / 56 SC 56.1 owell, Bill omment Type TR The current Figure re	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p	L13	# 518	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stro ption above.	een current 56.1.2 e the Nx25G EPO	2.1 & 56.1.2.2) to N text in both d the second option,
Change all instances roposed Response 56 SC 56.1 owell, Bill omment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p	L13	# 518	(1) Change the title of OR (2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2. After group discussion recommend the frist of Proposed Response	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. h, if the TF doesn't have a stru- ption above. <i>Response Status</i> <b>O</b> <i>P</i> <b>27</b>	een current 56.1.2 e the Nx25G EPO	2.1 & 56.1.2.2) to N text in both
Change all instances roposed Response / 56 SC 56.1 owell, Bill omment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur uggestedRemedy	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p	L13 Figure 56-5 (end o bage). However,	# 518 of first paragraph of Figure 56-5 is used for	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> <li>Cl 56 SC 56.1.3 Kramer, Glen</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru- ption above. <i>Response Status</i> <b>O</b> <i>P</i> <b>27</b> Broadcom	een current 56.1.2 e the Nx25G EPO ong opinion towar	2.1 & 56.1.2.2) to N text in both d the second option,
Change all instances roposed Response / 56 SC 56.1 owell, Bill omment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur uggestedRemedy	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p re. ference in this paragraph and	L13 Figure 56-5 (end o bage). However,	# 518 of first paragraph of Figure 56-5 is used for	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> <li>Cl 56 SC 56.1.3 Kramer, Glen</li> <li>Comment Type T</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru- ption above. <i>Response Status</i> <b>O</b> <i>P</i> <b>27</b> Broadcom <i>Comment Status</i> <b>X</b>	een current 56.1.2 e the Nx25G EPO ong opinion towar	2.1 & 56.1.2.2) to IN text in both d the second option, # <u>545</u>
Change all instances roposed Response 56 SC 56.1 owell, Bill omment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur uggestedRemedy Change the figure re next page to Figure r OR, if use of Fig. 56-	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p re. eference in this paragraph and the number 56-6. -5a is intentional for Nx25G EF	L13 Figure 56-5 (end co bage). However, the current Nx250 PON, at least char	# <u>518</u> of first paragraph of Figure 56-5 is used for G EPON figure on the	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> <li>Cl 56 SC 56.1.3 Kramer, Glen</li> <li>Comment Type T Per accepted PMD na</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stro ption above. <i>Response Status</i> <b>O</b> <i>P27</i> Broadcom <i>Comment Status</i> <b>X</b> aming convention (see slide 1	een current 56.1.2 e the Nx25G EPO ong opinion towar <i>L</i> 36 7, kramer_3ca_4a	2.1 & 56.1.2.2) to IN text in both d the second option, # <u>545</u>
Change all instances roposed Response 7 56 SC 56.1 owell, Bill omment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur uggestedRemedy Change the figure re next page to Figure r OR, if use of Fig. 56-	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p re. ference in this paragraph and m number 56-6.	L13 Figure 56-5 (end co bage). However, the current Nx250 PON, at least char	# <u>518</u> of first paragraph of Figure 56-5 is used for G EPON figure on the	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> <li>Cl 56 SC 56.1.3</li> <li>Kramer, Glen</li> <li>Comment Type T Per accepted PMD na upstream PMD rate is</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru- ption above. <i>Response Status</i> <b>O</b> <i>P</i> <b>27</b> Broadcom <i>Comment Status</i> <b>X</b>	een current 56.1.2 e the Nx25G EPO ong opinion towar <i>L</i> 36 7, kramer_3ca_4a	2.1 & 56.1.2.2) to IN text in both d the second option, # <u>545</u>
Change all instances Proposed Response Cl 56 SC 56.1 Powell, Bill Comment Type TR The current Figure re Clause 56.1 and figu the EPoC architectur SuggestedRemedy Change the figure re next page to Figure r OR, if use of Fig. 56-	Response Status O P25 Nokia Comment Status X eference for Nx25G EPON is F ure labeled 56-5a on the next p re. eference in this paragraph and the number 56-6. -5a is intentional for Nx25G EF	L13 Figure 56-5 (end co bage). However, the current Nx250 PON, at least char	# <u>518</u> of first paragraph of Figure 56-5 is used for G EPON figure on the	<ul> <li>(1) Change the title of OR</li> <li>(2) Create a new sub describe Nx25G EPO paragraphs of 56.1.2.</li> <li>After group discussion recommend the frist of Proposed Response</li> <li>Cl 56 SC 56.1.3</li> <li>Kramer, Glen</li> <li>Comment Type T Per accepted PMD na upstream PMD rate is</li> <li>SuggestedRemedy</li> </ul>	clause 56.1.2.1a (insert betwo N's use of MPMC. Also move 1 to the new clause. n, if the TF doesn't have a stru- ption above. <i>Response Status</i> <b>O</b> <i>P27</i> Broadcom <i>Comment Status</i> <b>X</b> aming convention (see slide 1 only shown for the asymetric es of 25G/25GBASE-PQ ar	een current 56.1.2 e the Nx25G EPO ong opinion towar <i>L</i> 36 7, kramer_3ca_4a c PMDs.	2.1 & 56.1.2.2) to N text in both d the second option, # <u>545</u> a_0518.pdf), the

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ <b>56</b>	Page 2 of 32
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 56.1.3	8/28/2018 6:40:13 AM
SORT ORDER: Clause, Subclause, page, line			

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/ <b>56</b> SC <b>56.1.3</b> Remein, Duane	P <b>28</b> Huawei	L1	# 419	C/ <b>56</b> Hajduczenia	SC 56.1.3	P <b>29</b> Charter Com	L <b>27</b>	# 555
	omment Status X			Comment T		Comment Status X	manicatio	
Previous entries in this table		ONU. We should	be consistent with	-		er and over again in multiple	locations in the s	tandard.
that ordering.				SuggestedF	Remedy			
SuggestedRemedy List OLT then ONU, keep rate 25/25GU, 50/10D, 50/10G		0GD, 25/10GU	, 25/25GD,	25GBAS	SE-R	P2MP Physical Layer signal stream and upstream directic	0 7	
Proposed Response Res	sponse Status <b>O</b>			PMD combina a) <tbe PMD</tbe 		to be filled in, once we know	what combinatio	ns are supported wher
C/ 56 SC 56.1.3	P <b>29</b> Huawei	L <b>26</b>	# 420		jet filled in>."			
	omment Status X			to read				
This para is incorrect (we dor		gnaling at all).				hysical Layer signaling syste		
uggestedRemedy						stream and upstream directions of the stream and upstream direction of the stream of t		series of PMD
Change from: "Additionally, EFM introduces derived from 25GBASE–R, b Nx25G-EPON, along with a n	ut which include RS, P	CS and PMA sub	players adapted for	Proposed R	lesponse	Response Status <b>O</b>		
these systems employ the Pl signaling systems utilizes exc	MD defined in Clause 1 clusively 25GBASE-R s	41. The family of signaling for the c	P2MP Physical Layer lownstream and	<i>CI</i> <b>56</b> Remein, Du	SC 56.1.3	Р <b>29</b> Huawei	L <b>33</b>	# 421
upstream directions, supporti "Additionally, EFM introduces from 25GBASE–R, referred to	a family of P2MP Phy	sical Layer signa	ling systems derived	Comment T	51	Comment Status X the previous sentences.		
and PMA sublayers with a ma EPON. The family of P2MP s				SuggestedF	-			
and upstream directions. All	25GBASE-PQ systems	s employ the PMI		00		ON PMDs are defined in Clau	use 141."	
141 and support the following Proposed Response Res	g series of PMD combinisters of P	nations:		Proposed R	Response	Response Status O		
				C/ 141	SC 141	P34	L1	# 556
				Hajduczenia		Charter Com	municatio	
				Comment T	ype E	Charter Com <i>Comment Status</i> X ame across lines	municatio	
				Comment T Do not t SuggestedF	ype <b>E</b> break EPON na Remedy	Comment Status X	municatio	

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

	P <b>34</b>	L <b>8</b>	# 557	C/ 141 SC 141.1.4	P34	L <b>36</b>	# 423
Hajduczenia, Marek	Charter Com	municatio		Remein, Duane	Huawei		
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
Aggregate line rate - v	what is this new animal?				t. It also seems to be mispla	aced and should b	pe part of 141.2 PMD
SuggestedRemedy				Nomenclature.			
	in the whole draft, all in intro			SuggestedRemedy		07.	- 444 0 ( 45)
Change all instances of Change "All Nx25G-E collectively referred to Gb/s in the downstrea	t is in bps and not Bd) and als of "an aggregate line rate" wit PON PMDs operating in the d as 50G-EPON PMDs while the m direction are referred to as	h "a MAC rate" lownstream direc hose operating a 25G-EPON PMI	tion at 50 Gb/s are t a maximum rate of 25 Ds." to "All Nx25G-	add the following:	1.2 as 141.2.2 (see Ed comi Ys are supported by the Link <i>Response Status</i> <b>0</b>		,
	ig in the downstream direction as 50G-EPON PMDs while N						
downstream direction	at the MAC rate of 25 Gb/s at			C/ 141 SC 141.1.4	P34	L37	# 558
align terminology and Proposed Response				Hajduczenia, Marek	Charter Com		,, 556
roposed response	Response Status O			Comment Type <b>T</b>	Comment Status X		
				Missing text			
C/ 141 SC 141.1.3	P <b>34</b>	L <b>26</b>	# 422	SuggestedRemedy			
Remein, Duane	Huawei				nto 141.1.4 (and make sure	sure all links are	live): "Table 141-1
	Huawei Comment Status X			Add the following text i	nto 141.1.4 (and make sure now all the PHY link types su		
Comment Type <b>T</b> We seem to have two				Add the following text i			
Comment Type <b>T</b> We seem to have two and another at 141.2.8 SuggestedRemedy	Comment Status X sections on power budgets 1			Add the following text i through Table 141-5 sh Proposed Response	now all the PHY link types su <i>Response Status</i> <b>O</b>	pported by Nx25	G-ÉPON architecture.
Comment Type <b>T</b> We seem to have two and another at 141.2.5	Comment Status X sections on power budgets 1			Add the following text i through Table 141-5 st Proposed Response Cl 141 SC 141.2	now all the PHY link types su Response Status <b>0</b> P <b>37</b>		
Comment Type <b>T</b> We seem to have two and another at 141.2.9 SuggestedRemedy Strike 141.1.3	Comment Status X sections on power budgets 1			Add the following text i through Table 141-5 sh Proposed Response Cl 141 SC 141.2 Remein, Duane	now all the PHY link types su <i>Response Status</i> <b>O</b> <i>P</i> <b>37</b> Huawei	pported by Nx25	G-ÉPON architecture.
Comment Type T We seem to have two and another at 141.2.9 SuggestedRemedy Strike 141.1.3	Comment Status X sections on power budgets 1 5."PMD power classes" that b			Add the following text i through Table 141-5 sh Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E	how all the PHY link types su Response Status <b>O</b> P <b>37</b> Huawei Comment Status <b>X</b>	L15	G-ÉPON architecture. # [425
Comment Type <b>T</b> We seem to have two and another at 141.2.5 SuggestedRemedy Strike 141.1.3 Proposed Response	Comment Status X sections on power budgets 1 5."PMD power classes" that b			Add the following text i through Table 141-5 sh Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E This section seems to	now all the PHY link types su <i>Response Status</i> <b>O</b> <i>P</i> <b>37</b> Huawei	Language for the second	G-ÉPON architecture. # 425 formation. It seems
We seem to have two and another at 141.2.5 SuggestedRemedy Strike 141.1.3 Proposed Response	Comment Status X sections on power budgets 1 5."PMD power classes" that b Response Status <b>O</b>	oth say essentia	lly the same thing.	Add the following text i through Table 141-5 sh Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E This section seems to	now all the PHY link types su <i>Response Status</i> <b>0</b> <i>P</i> <b>37</b> Huawei <i>Comment Status</i> <b>X</b> go from detailed information	Language for the second	G-ÉPON architecture. # 425 formation. It seems
Comment Type T We seem to have two and another at 141.2.9 SuggestedRemedy Strike 141.1.3 Proposed Response CI 141 SC 141.1.4 Remein, Duane Comment Type E We have a good mix of	Comment Status X sections on power budgets 1 5."PMD power classes" that b Response Status <b>0</b> P34	oth say essentia	lly the same thing. # [424	Add the following text i through Table 141-5 st Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E This section seems to better to introduce the SuggestedRemedy Under 141.2 add the for Nx25G-EPON PMDs a by rate (both upstream	now all the PHY link types su Response Status <b>O</b> P37 Huawei Comment Status <b>X</b> go from detailed information topic of nomenclature first be pllowing text: are classified based on PHY I and downstream), waveleng	L15 L0 generalized in efore going into d ink type (see 141 gth, channel inser	G-ÉPON architecture. # 425 formation. It seems letails.
Comment Type T We seem to have two and another at 141.2.9 SuggestedRemedy Strike 141.1.3 Proposed Response CI 141 SC 141.1.4 Remein, Duane Comment Type E We have a good mix of	Comment Status X sections on power budgets 1 5."PMD power classes" that b Response Status <b>0</b> P34 Huawei Comment Status X of "PHY Link Types", "PHY Li sistency would be better.	oth say essentia	lly the same thing. # [424	Add the following text i through Table 141-5 st Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E This section seems to better to introduce the SuggestedRemedy Under 141.2 add the for Nx25G-EPON PMDs a by rate (both upstream coexistence technology scheme, protocol, line {note the ref to 141.2.2	now all the PHY link types su Response Status <b>O</b> P37 Huawei Comment Status <b>X</b> go from detailed information topic of nomenclature first be pllowing text: the classified based on PHY I and downstream), waveleng y. PMD names are determin code and optical power bud 2 assumes that 141.1.6 is more	L15 L15 to generalized in efore going into d ink type (see 141 th, channel inser ed by PHY link ty get as summariz vved to 141.2.2}	G-ÉPON architecture. # 425 formation. It seems letails. I.2.1) which is specifie tion loss and /pe, direction, signalin ed in 141.2.2.
Comment Type T We seem to have two and another at 141.2.5 SuggestedRemedy Strike 141.1.3 Proposed Response Cl 141 SC 141.1.4 Remein, Duane Comment Type E We have a good mix of PHY link types". Cons SuggestedRemedy	Comment Status X sections on power budgets 1 5."PMD power classes" that b Response Status <b>0</b> P34 Huawei Comment Status X of "PHY Link Types", "PHY Li sistency would be better.	oth say essentia	lly the same thing. # [424	Add the following text i through Table 141-5 st Proposed Response Cl 141 SC 141.2 Remein, Duane Comment Type E This section seems to better to introduce the SuggestedRemedy Under 141.2 add the for Nx25G-EPON PMDs a by rate (both upstream coexistence technology scheme, protocol, line {note the ref to 141.2.2 Move section 141.1.4	now all the PHY link types su Response Status <b>O</b> P37 Huawei <i>Comment Status</i> <b>X</b> go from detailed information topic of nomenclature first be blowing text: tre classified based on PHY I and downstream), waveleng y. PMD names are determin code and optical power bud	L15 L15 to generalized in efore going into d ink type (see 141 gth, channel inser ed by PHY link ty get as summarize wed to 141.2.2 s 141-1 thru 141-	G-ÉPON architecture. # 425 formation. It seems letails. 1.2.1) which is specifie tion loss and /pe, direction, signalin ed in 141.2.2. 5 to 141.2.1.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g	general C/ 141	Page 4 of 32
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	ritten C/closed Z/withdrawn SC 141.2	8/28/2018 6:40:13 AM
SORT ORDER: Clause, Subclause, page, line		

<i>Cl</i> <b>141</b> <i>SC</i> <b>141.2.2</b> Hajduczenia, Marek	P <b>37</b> Charter Com	L <b>28</b> municatio	# 559	C/ 141 SC 141.2. Wey, Jun Shan	5 P37 ZTE TX	L <b>52</b>	# 522
Comment Type E Always avoid the use	Comment Status X of "always" unless describing	unavoidable situ	ations	Comment Type ER Typo "din"	Comment Status X		
SuggestedRemedy Strike all instances of	"always" in 141.2.2			SuggestedRemedy "in"			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 141 SC 141.2.3 Hajduczenia, Marek	P <b>37</b> Charter Com	L <b>36</b> municatio	# 560	<i>Cl</i> <b>141</b> <i>SC</i> <b>141.2</b> . Remein, Duane	5 <i>P</i> <b>37</b> Huawei	L <b>52</b>	# 426
Comment Type <b>T</b> Unclear what the purp	Comment Status X	ously existing"		Comment Type E typo "indicate din" sl	Comment Status X hould be "indicated in"		
SuggestedRemedy Strike "previously exis	sting" - there are many more p	previously existing	g technologies	SuggestedRemedy per comment			
Proposed Response	Response Status O			Proposed Response	Response Status O		
<i>Cl</i> <b>141</b> SC <b>141.2.5</b> Hajduczenia, Marek	P <b>37</b> Charter Com	L <b>48</b> municatio	# 561	C/ 141 SC 141.2. Hajduczenia, Marek	6 P38 Charter Con	L <b>6</b> nmunicatio	# 563
Comment Type TR Repetition of text from	Comment Status X			Comment Type E Descriptions would b	Comment Status X	structured table	
SuggestedRemedy	N PMDs defined in this claus	e are defined as	one of two power	SuggestedRemedy	141.2.6 with hajduczenia_3ca_	1 0018 pdf	
classes; a medium or power budget class" t two power classes; a	a high o "Nx25G-EPON PMDs define medium or a high	ed in this clause	are defined as one of	Proposed Response	Response Status <b>O</b>	1_0010.pdf	
class supports a P2M	lefined in 141.1.3." - make linl P media channel insertion los split ratio of at least 1:16 and t	s of ≤ 24 dB		C/ 141 SC 141.2. Hajduczenia, Marek	6 P38 Charter Con	L <b>11</b> nmunicatio	# 562
of at least 1:32 and th P2MP media channel	e distance of at least 10 km dB e.g., a PON with the split r	0		<i>Comment Type</i> <b>TR</b> "If r1 is equal to r2 (i discussion at the las	Comment Status X i.e., symmetric PMDs) r2 is on st meeting	nitted" is not true a	anymore based on
Proposed Response	Response Status O			SuggestedRemedy Strike the line			
				Proposed Response	Response Status <b>O</b>		

TYPE: TR/technical required ER/editorial required GR/gene	al required T/technical E/editorial G/general	C/ 141	Page 5 of 32
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 141.2.6	8/28/2018 6:40:13 AM
SORT ORDER: Clause, Subclause, page, line			

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/ 141 SC 141.2.6	P38	L <b>27</b>	# 427	C/ 141 SC 141.2.7 P39 L43 # 430
Remein, Duane	Huawei			Remein, Duane Huawei
Comment Type E	Comment Status X			Comment Type T Comment Status X
Change "coexist" to "co	pexistence"			We've used the term "power budget" quite a bit up to this point. In this context the term more encompassing that in previous uses.
per comment				SuggestedRemedy
Proposed Response	Response Status O			Change: "The power budget is determined" to: "The end-to-end power budget is determined"
C/ 141 SC 141.2.7 Hajduczenia, Marek	P <b>38</b> Charter Comr	L <b>45</b> municatio	# 564	Proposed Response Response Status O
Comment Type E	Comment Status X			C/ 141 SC 141.2.7.1 P39 L31 # 429
There is very little in th	e way of description in this su	ubclause: "This s	subclause describes	Remein, Duane Huawei
how"				Comment Type T Comment Status X
SuggestedRemedy Change to "Table 141-	6 shows how"			This description of table 141-7 appears to be incorrect as the table includes asymmetric and symmetric PMDs.
Proposed Response	Response Status <b>O</b>			SuggestedRemedy
				Change: "Table 141–7 illustrates recommended pairings of symmetric-rate ONU PMDs with symmetric-rate OLT PMDs to achieve the power budgets as shown in Table 141–1 throu
C/ 141 SC 141.2.7 Remein, Duane	P <b>39</b> Huawei	L <b>2</b>	# 428	Table 141–7 illustrates recommended pairings of OLT PMDs with ONU PMDs to achiev
Comment Type <b>T</b>	Comment Status X			the medium power budgets as shown in Table 141–1 through Table 141–5."
There is no reference t included in other tables	o Table 141–6. It is unclear t 3.	to me what this	table adds that is not	Proposed Response Response Status <b>O</b>
SuggestedRemedy Either remove the table	e to add introductory text and	reference.		Cl 141 SC 141.2.7.1 P39 L31 # 565
Proposed Response	Response Status 0			Hajduczenia, Marek Charter Communicatio
				Comment Type TR Comment Status X "symmetric-rate ONU PMDs with symmetric-rate OLT PMDs" - there are now both symmetric and asymmetric PMDs shown
				SuggestedRemedy Change to "ONU PMDs with OLT PMDs", same change on page 40, line 3

C/ 141 SC 141.2.7.1

C/ 141 SC 141.2.7.2	2 P <b>40</b>	L <b>3</b>	# 431	C/ 141 SC 141.3.1.1	P <b>40</b>	L <b>51</b>	# 434
Remein, Duane	Huawei			Remein, Duane	Huawei		
Comment Type T	Comment Status X			Comment Type TR	Comment Status X		
This description of tabl and symmetric PMDs.	le 141-8 appears to be incorre	ect as the table ir	ncludes asymmetric	RS-PMA chain (see belo	evious generations of EPO ow). We now have separat	e sections for RS	and PCS/PMA and
SuggestedRemedy Change:				the PCS/PMA.	al allowed delay variation v	with some going to	RS and the rest to
"Table 141–8 illustrate: asymmetric-rate OLT F through Table 141–5." "Table 141–8 illustrate:	es recommended pairings of O	udgets as shown DLT PMDs with O	in Table 141–1	is implementation deper variation through RS, P0	s ct timing based on the distr ident but an implementation CS, and PMA sublayers of r terfere with the MPCP timin	n shall maintain a no more than 1 tim	combined delay
	shown in Table 141–1 through	1 1 able 141-5."		SuggestedRemedy			
Proposed Response	Response Status O			to read:	2 replace the {TBD} with the	-	-
C/ 141 SC 141.3	P <b>40</b>	L <b>30</b>	# 432		ict timing based on the dist dependent but an impleme		
Remein, Duane	Huawei		102		144-TBD. Implementations		
Comment Type E	Comment Status X			for each direction as spe	ecified in {cl 45 ref]."		
••	of "PQ-type PMD", "PQ type F	MD", and "PQ c	ompliant".	In 144.3.1.2 change:			
Consistency would be		ind , and i do		"The actual delay is imp	lementation dependent; how	wever, a complyin	g implementation sha
SuggestedRemedy					on of no more than <tbd e<="" td=""><td></td><td></td></tbd>		
For "PQ-type PMD" an	nd "PQ type PMD" use "Nx25 use "An Nx25G-EPON compli				lementation dependent; how on in accordance with Table		g implementation sha
Proposed Response	Response Status <b>O</b>				tion allocation in Nx25G-EP		
				Layer/Sub-layer MCRS	Allowed Delay vari	ation (EQT)	
				Nx25G-EPON PCS/PM/	1 A 2		
7 141 SC 141.3.1	P <b>40</b>	L <b>38</b>	# 433	Nx25G-EPON PMD	1		
Remein, Duane	Huawei			MAC to PHY(1)	4		
Centein, Duane	0			PHY(2) Notes:	3		
Comment Type T	Comment Status X			10103.			
Comment Type <b>T</b> The following statemer is not composed solely	nt is incorrect "representing 28 y of 256B/257B blocks but inc			layers.	or an Nx25G-EPON implen	C C	·
Comment Type <b>T</b> The following statemer is not composed solely	nt is incorrect "representing 25			layers. 2) Total delay variation f	or an Nx25G-EPON implen	nentation including	g PCS, PMA and PM
Comment Type <b>T</b> The following statemer is not composed solely delimiter all of which a	nt is incorrect "representing 28 y of 256B/257B blocks but inc			layers. 2) Total delay variation f 3) Total expected delay	or an Nx25G-EPON implen is declared as specified in {	nentation includino (CI 45 PMA/PMD	g PCS, PMA and PM Ref} and {Cl 45 PCS
Comment Type <b>T</b> The following statemer is not composed solely delimiter all of which a	nt is incorrect "representing 28 y of 256B/257B blocks but inc			layers. 2) Total delay variation f 3) Total expected delay	or an Nx25G-EPON implen is declared as specified in which combine MCRS, PCS	nentation includino (CI 45 PMA/PMD	g PCS, PMA and PN Ref} and {Cl 45 PCS
Comment Type <b>T</b> The following statemer is not composed solely delimiter all of which a SuggestedRemedy	nt is incorrect "representing 28 y of 256B/257B blocks but inc			layers. 2) Total delay variation f 3) Total expected delay Ref}. Implementations v both of these mechanism	or an Nx25G-EPON implen is declared as specified in which combine MCRS, PCS	nentation including (CI 45 PMA/PMD 3, PMA and PMD i	g PCS, PMA and PM Ref} and {CI 45 PCS may use either one o

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 141

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC
 141.3.1.1

 SORT ORDER: Clause, Subclause, page, line
 SC
 141.3.1.1
 SC

Page 7 of 32 8/28/2018 6:40:13 AM

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

emein, Duane	Huawei			Remein, D	Juane		Huawei		
omment Type ER	Comment Status X			Comment	Туре	E	Comment Status X		
	s of "Clause 142 PMA" (2 of			The w	ording of	this sent	tence can be improved		
	"I"). Most readers will not kr unhelpful to them. The link to			Suggested	dRemedy	/			
	ay from the PMA section of ir			Chang	,				
lggestedRemedy							sends a stream of bits the MDI, at the nominal		
Change all instances "Clause 142 PMA" (in "Nx25G-EPON PMA	ncluding those with hidden c	naracters) to		of Nx2 speed	25G–EPC of 10.31	ON OLT a 25 GBd ir	and ONU PMDs or to the in the case of 25/10G– sends a stream of bits	ne Clause 142 PMA a EPON and 50/10G-E	it the nominal signalin PON OLT PMDs." to
oposed Response	Response Status <b>O</b>			corres 25.78 signali	ponding 125 GBd ing speed	to the sig in the cas	nals received from the se of Nx25G–EPON C 125 GBd in the case of	MDI, at the nominal LT and ONU PMDs of	signaling speed of or at the nominal
141 SC 141.3.1	. <b>2</b> P41	L <b>8</b>	# 436	PMDs					
141 00 141.3.1									
-	Huawei			Proposed	Respons	se	Response Status C		
mein, Duane	Huawei Comment Status X			Froposed	Respons	se	Response Status C	•	
mein, Duane mment Type E			can be improved;	C/ 141		se 41.3.1.4	Response Status C	L28	# 438
mein, Duane mment Type E These two sentences	Comment Status X		can be improved;		SC 1				# 438
mein, Duane mment Type E These two sentences ggestedRemedy Change:	Comment Status X s are a bit wordy, not to men	ion incorrect, and		C/ 141	SC 1		, Р41	L <b>28</b>	# 438
mein, Duane mment Type E These two sentences ggestedRemedy Change: "The Clause 142 PM transmission on the r	Comment Status X s are a bit wordy, not to men A continuously sends the ap medium, at a nominal signali	ion incorrect, and propriate stream o ng speed of 25.78	f bits to the PMD for 125 GBd in the case of	Cl 141 Remein, D Comment This p	SC 14 Duane Type	<b>41.3.1.4</b> ER lause 142	, P <b>41</b> Huawei	L <b>28</b>	
emein, Duane <i>omment Type</i> <b>E</b> These two sentences <i>iggestedRemedy</i> Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a	Comment Status X s are a bit wordy, not to men A continuously sends the ap	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc	f bits to the PMD for 125 GBd in the case of busly sends the	Cl 141 Remein, D Comment This p	SC 1 Duane <i>Type</i> hrase "C Se 142 PC	<b>41.3.1.4</b> <b>ER</b> lause 142 CS" is.	P41 Huawei Comment Status X	L <b>28</b>	
emein, Duane omment Type E These two sentences uggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu	f bits to the PMD for 125 GBd in the case of busly sends the um, at a nominal	Cl 141 Remein, D Comment This p "Claus Suggested	SC 1 Duane Type hrase "C se 142 PC	<b>41.3.1.4</b> <b>ER</b> lause 142 CS" is.	P <b>41</b> Huawei <i>Comment Status</i> X 2 PCS" is unhelpful to	L <b>28</b>	
emein, Duane omment Type E These two sentences aggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali ind ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 see 142.3) continuously sends n on the medium, at a nomin	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuo ssion on the media /10G-EPON and 5 s the appropriate s al signaling speed	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the	Cl 141 Remein, D Comment This p "Claus Suggested	SC 1 Duane Type hrase "C se 142 PC dRemedy ge to" Nx2	41.3.1.4 ER lause 142 CS" is. , 25G-EPO	P <b>41</b> Huawei <i>Comment Status</i> X 2 PCS" is unhelpful to	L28 most readers, who w	
mein, Duane mment Type E These two sentences ggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang	SC 1 Duane Type hrase "C se 142 PC dRemedy ge to" Nx2 Respons	41.3.1.4 ER lause 142 CS" is. , 25G-EPO	P41 Huawei Comment Status X 2 PCS" is unhelpful to DN PCS"	L28 most readers, who w	ill not know what the
mein, Duane mment Type E These two sentences ggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI GBd in the case of 25	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at 5/10G-EPON and 50/10G-E	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang Proposed	SC 1 Duane Type hrase "C se 142 PC dRemedy ge to" Nx2 Respons SC 1	<b>41.3.1.4</b> <b>ER</b> lause 142 CS" is. , 25G-EPO	P41 Huawei Comment Status X 2 PCS" is unhelpful to DN PCS" Response Status C	L28 most readers, who w	
emein, Duane omment Type E These two sentences orggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI GBd in the case of 25	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang Proposed	SC 1 Duane Type hrase "C se 142 PC dRemedy ge to" NX Respons SC 1 Duane	<b>41.3.1.4</b> <b>ER</b> lause 142 CS" is. , 25G-EPO	P41 Huawei Comment Status X 2 PCS" is unhelpful to ON PCS" Response Status C P41	L28 most readers, who w	ill not know what the
emein, Duane omment Type E These two sentences uggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at 5/10G-EPON and 50/10G-E	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang Proposed Cl 141 Remein, D Comment the ter	SC 1/ Duane Type hrase "C se 142 PC dRemedy ge to" Nx2 Respons SC 1/ Duane Type rm PMD_	41.3.1.4 ER lause 142 CS" is. 25G-EPO se 41.3.1.5 E _UNITDAT	P41 Huawei Comment Status X 2 PCS" is unhelpful to DN PCS" Response Status C P41 Huawei Comment Status X	L28 most readers, who w	ill not know what the
emein, Duane omment Type E These two sentences orggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI GBd in the case of 25	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at 5/10G-EPON and 50/10G-E	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang Proposed Cl 141 Remein, D Comment the ter	SC 1 Duane Type hrase "C se 142 PC dRemedy ge to" Nx2 Respons SC 1 Duane SC 1 Duane Type rm PMD_ cation(rx_	41.3.1.4 ER lause 142 CS" is. 25G-EPO 25G-EPO 25G-EPO 25G-EPO 2010 2011 2011 2011 2011 2011 2011 201	P41 Huawei Comment Status X 2 PCS" is unhelpful to DN PCS" Response Status C P41 Huawei Comment Status X TA[	L28 most readers, who w	ill not know what the
emein, Duane omment Type E These two sentences uggestedRemedy Change: "The Clause 142 PM transmission on the r Nx25G-EPON OLT a appropriate stream o signaling speed of 10 PMDs." to "The Nx25G PMA (se PMD for transmission case of Nx25G-EPOI GBd in the case of 25	Comment Status X s are a bit wordy, not to ment A continuously sends the ap medium, at a nominal signali and ONU PMDs. The Clause f bits to the PMD for transmi 0.3125 GBd in the case of 25 ee 142.3) continuously sends n on the medium, at a nomin N OLT and ONU PMDs or at 5/10G-EPON and 50/10G-E	ion incorrect, and propriate stream o ng speed of 25.78 142 PMA continuc ssion on the mediu /10G-EPON and 5 the appropriate s al signaling speed a nominal signalir	f bits to the PMD for 125 GBd in the case of pusly sends the um, at a nominal 50/10G–EPON ONU tream of bits to the of 25.78125 GBd in the pg speed of 10.3125	Cl 141 Remein, D Comment This p "Claus Suggested Chang Proposed Cl 141 Remein, D Comment the ter i].indic Suggested	SC 1. Duane Type hrase "C se 142 PC dRemedy ge to" Nx2 Respons SC 1. Duane Type rm PMD_ cation(rx_ dRemedy	41.3.1.4 ER lause 142 CS" is. 25G-EPO se 41.3.1.5 E _UNITDAT _bit) shoul	P41 Huawei Comment Status X 2 PCS" is unhelpful to DN PCS" Response Status C P41 Huawei Comment Status X TA[	L28 most readers, who w	ill not know what the

C/ 141 SC 141.3.1.5

<i>Cl</i> <b>141</b> SC <b>141.3.1.5</b> Hajduczenia, Marek	P <b>41</b> Charter Comn	L46	# 566	C/ 141 SC 141.3.2 Hajduczenia, Marek	P <b>42</b> Charter Comr	L7	# 568
Comment Type E Wrong format for NOTE	Comment Status X	nunicatio		Comment Type T Wrong reference: 141.8	Comment Status X	nunicatio	
SuggestedRemedy Apply proper style for N	IOTE			SuggestedRemedy Change 141.8 to 141.7	(that is where all tests are do	efined) - two inst	ances
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 141 SC 141.3.2 Hajduczenia, Marek	P <b>42</b> Charter Comn	L1 nunicatio	# 567	C/ 141 SC 141.3.2 Remein, Duane	P <b>42</b> Huawei	L <b>47</b>	# 441
"test points TP1[i] throu S <i>uggestedRemedy</i> Change "TP1[i] through	test points are channels spe igh TP4[i]" - that implies all o TP4[i]" to "TP1[i], TP2, TP3 TP8[i]" to "TP5[i], TP6, TP7	f them are index , and TP4[i]" glol	ed and they are not.	SuggestedRemedy Change title to "Nx25G- Proposed Response	lacking quite a bit to be call EPON PMD test points" Response Status <b>O</b>		
Proposed Response	Response Status 0	L4	# 440	C/ 141 SC 141.3.5.1 Remein, Duane	P <b>43</b> Huawei	L18	# 442
Remein, Duane Comment Type E	Huawei Comment Status X	24	π 440		Comment Status X the statement "The ONU PN he wording "The PQ-type P		
"defined on per channe	l basis" missing "a"			Should be alighed			

C/ 141 SC 141.3.5.1

C/ 141 SC 141.3.5.3 Remein, Duane	3 P <b>43</b> Huawei	L <b>31</b>	# 443	C/ 141 SC 141.5. Remein, Duane	P <b>44</b> Huawei	L <b>27</b>	# 444
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
Seems like excessive Nx25G-EPON Signal SuggestedRemedy Strike the subclause ti	sub-division; ONU PMD signa detect functions. tle "141.3.5.3 Nx25G-EPON \$ 141.3.5 PMD signal detect fu <i>Response Status</i> <b>O</b>	Signal detect fun	-	There is no definitio 49. Presumable this also extend to wave operate at any wave requirement while m Note that in Cl 60 th	n of what is considered "The o s means reach and split but tha elength and line rate? If so there elength and rate "A transceiver neeting all other optical specific the term range was used in Table a minimal connection to phrasin	at is not mentioned in it is OK per the fe which exceeds the ations is consider e 60-1 instead of	d anywhere. Does it ollowing statement to e operational range ed compliant."
				SuggestedRemedy		-	
C/ 141 SC 141.3.5.3	3 P43 Charter Com	L <b>38</b>	# 569	Change in both case	es: es … " to: "The maximum reac	h "	
Comment Type <b>T</b> Table 141-9 contains	Comment Status X	nunicatio		and change: " exceeds the ope requirement"	erational range requirement"	to " exceeds the	e operational reach
SuggestedRemedy				Proposed Response	Response Status 0		
specified receiver way to Average input optical 141–15 at the specifie Change Average input optical signal input at the spe to Average input optical	power <= Signal Detect Thres elength power <= Signal Detect Thres d receiver wavelength, as app power >= Receive sensitivity ( cified receiver wavelength power >= Receive sensitivity ( l input at the specified receive <i>Response Status</i> <b>O</b>	hold (min) in Ta licable max) in Table {1 max) in Table 1	BD} with a compliant	SuggestedRemedy Force Table 141–12 Force Table 141–14	Charter Con Comment Status X ayed within the associated sub 2 and Table 141–13 to follow 14 4 and Table 141–15 to follow 14 eded in 141.6.1 Transmitter op	clauses 11.5.1 Transmitter 11.5.2 Receiver op	otical specifications
				C/ 141 SC 141.6	P <b>44</b>	L <b>46</b>	# 445
				Remein, Duane	Huawei		
				Comment Type E As near as I can tell	Comment Status X there are no specifications in	141.2.	
				SuggestedRemedy Strike ", as specified	d in 141.2"		
				Proposed Response	Response Status O		
•	ed ER/editorial required GR/	• •		/general vritten C/closed Z/withdrawr	C/ 1 SC 1		Page 10 of 32 8/28/2018 6:40:13

SORT ORDER: Clause, Subclause, page, line

C/ 141 SC 141.6 Harstead, Ed	Р <b>45</b> Nokia	L <b>39</b>	# 516	C/ 141 SC 141.6.2 Wey, Jun Shan	Р <b>45</b> ZTE TX	L <b>54</b>	# 524
mean the 2 dB, or it co normative values in the SuggestedRemedy	Comment Status X (b): "This value is informative uld be the same "this" in the body of the table. Same con For reference, this implies the	previous sentend ncern in Tables	ce which refers to 141-13, -16, and -17.	Comment Type TR Table 141-10 is for th SuggestedRemedy Change to Tables 14 Proposed Response	Comment Status X ne downstream wavelength, no 1-18 and 141-19 Response Status <b>O</b>	t for ONU PMD.	
per channel at minimu maximum TDP is 2 dB Proposed Response	m extinction ratio and			<i>Cl</i> 141 SC 141.6.2 Wey, Jun Shan	<i>Р<b>46</b> Z</i> те тх	L <b>44</b>	# 527
Cl 141 SC 141.6.2 Remein, Duane Comment Type ER Unhelpful link with unh SuggestedRemedy Change to "Nx25G-EP	P45 Huawei Comment Status X elpful text "Clause 141 ONU I	L <b>52</b> PMDs,"	# 447	Comment Type TR Table 141-10 in this a SuggestedRemedy Change to Tables 14 Proposed Response	Comment Status X and the next paragraphs need 1-18 and 141-19 Response Status <b>O</b>	to be replaced by	the correct referenc
Proposed Response	Response Status <b>O</b>			C/ 141 SC 141.7.1 Remein, Duane	3 P54 Huawei	L10	# 448
Cl 141 SC 141.6.2 Remein, Duane Comment Type E No PMDs are "(as spec SuggestedRemedy Strike the parenthetica Proposed Response	,	L <b>52</b>	# 446	Comment Type E Incomplete sentence SuggestedRemedy Change (4x in this se ", value is less than 1 " and has a value of I Proposed Response	ection) 28 ns" to		

C/ 141 SC 141.7.13 Page 11 of 32 8/28/2018 6:40:13 AM

C/ 141 SC 141.7.13	Р <b>54</b> Nokia	L <b>11</b>	# 517	C/ 141 SC 141.7.13.2 P54 L36 Haiduczenia. Marek Charter Communicatio	# 572
Harstead, Ed				· · · · · · · · · · · · · · · · · · ·	
Comment Type E	Comment Status X			Comment Type E Comment Status X	
ns. Which means 128 ns	7 specify Turn-on time (ma is an acceptable value. T	he text in 141.7.		"The test setup for measuring Ton and Toff is described in Figure 141–4 describe really anything.	" -figure does no
	means 128 ns is not an ac	cceptable value.		SuggestedRemedy	
SuggestedRemedy				Change "described in Figure 141–4" to "shown in Figure 141–4"	
Reword text to indicate 12 captured in the table.	28 ns maximum. Or, delete	e values here sin	ce they are already	Proposed Response Response Status <b>O</b>	
Proposed Response	Response Status O				
				C/ 141 SC Table 141-12 P45 L23	# 523
C/ 141 SC 141.7.13	P <b>54</b>	L12	# 449	Wey, Jun Shan ZTE TX	
Remein, Duane	Huawei			Comment Type TR Comment Status X	
Comment Type TR	Comment Status X			The unit of extinction ratio should be "dB"	
	ned in 141.7.13.2 (informat	tive) value is les	s than " How can a	SuggestedRemedy	
	lefined in and informative s			"for extinction ratio >= 9 dB	
SuggestedRemedy				for extinction ratio < 9 dB"	
<u> </u>	que for measuring Treceive alue of less than	er_settling is illus	strated in 141.7.13.2	Proposed Response Response Status <b>O</b>	
Proposed Response	Response Status <b>O</b>				"
				C/         141         SC         Table 141-13         P46         L24           Wey, Jun Shan         ZTE TX         ZTE TX	# 525
C/ 141 SC 141.7.13.1	P <b>54</b>	L <b>26</b>	# 571	Comment Type TR Comment Status X	
Hajduczenia, Marek	Charter Comm	nunicatio		The unit of extinction ratio should be "dB"	
Comment Type E	Comment Status X			SuggestedRemedy	
Stray T in "as defined in T				"for extinction ratio >= 9 dB	
				for extinction ratio $< 9 \text{ dB}$ "	
SuggestedRemedy Remove the green "T"				Proposed Response Response Status <b>O</b>	
-	Response Status <b>O</b>				

C/ 141 SC Table 141-13

	141-12, 141-13, P45	L	# 526	C/ 142 SC 142.2.2.1 P65 L26 # 452
Vey, Jun Shan	ZTE TX			Remein, Duane Huawei
Comment Type TR	Comment Status X			Comment Type E Comment Status X
are inconsistent. In T	values in footnote (a) in Table able 141-13, the footnote state			We are very inconsistent in capitalizing process when referring to a SD. We should pick one.
it's TDP< 0.5 dB.				SuggestedRemedy
SuggestedRemedy				use lower case in all instances (that way the editor does not have to pick and choose in
Make the appropriate				which of the >150 cases to use which case).
Proposed Response	Response Status O			Proposed Response Response Status O
C/ <b>142</b> SC <b>142.2.2</b> Remein, Duane	P <b>65</b> Huawei	L18	# 450	C/ 142 SC 142.2.2.1.2 P65 L51 # 547 Kramer, Glen Broadcom
Comment Type T	Comment Status X			Comment Type T Comment Status X
Proposed resolution t	to Editor's Note			In table 142-1, the value for /IBI/ is the same as the value for /RA/.
SuggestedRemedy				SuggestedRemedy
See remein_3ca_1_0	•			<ol> <li>Change xMII control code and Nx25GBASE-PQ control code for /IBI/ to 0x0A (to mate definition in 142.2.2.5.1)</li> </ol>
Proposed Response	Response Status O			2) Insert hyphen after "Inter" in Inter Envelope Idle and Inter Burst Idle.
				Proposed Response Response Status O
C/ 142 SC 142.2.2	P <b>65</b>	L18	# 451	
Remein, Duane	Huawei			C/ 142 SC 142.2.2.1.2 P65 L54 # 453
Comment Type T	Comment Status X			Remein, Duane Huawei
Figure and text on tra	Insmit bit ordering missing.			Comment Type TR Comment Status X
SuggestedRemedy				CC /IBI/ should not be the same as /RA/
	t at the end of the section (142			SuggestedRemedy
	142-5} the PCS transmitter firs			Change xMII and Nx25GBASE-PQ IBI control codes to 0x0A
	to a single 64-bit vector which cumulated, scrambled, and tra			5
transferred to the INF the TX_FIFO, along v process. The PCS T	VUT_FIFO and also copied to t with framing information (see { ransmit process transfers all ir ismit bits in the order shown in	he FEC encoder. 142.2.5.4.2}) by the aformation bits to	Data is transferred to ne PCS Framer	Proposed Response Response Status <b>O</b>
Proposed Response	Response Status O			

C/ 142 SC 142.2.2.1.2 Page 13 of 32 8/28/2018 6:40:13 AM

C/ 142 SC 142.2.2.2 Remein, Duane	2 <i>P</i> 67 Huawei	L <b>3</b>	# 454	C/ 142 SC 142.2.2.5.1 Remein, Duane	P <b>79</b> Huawei	L <b>45</b>	# 456
Comment Type E	Comment Status X	polete SBD is apr	pended to the TX_FIFO	Comment Type E Comment S typo "ofburst"	Status X		
the input process begin				SuggestedRemedy			
SuggestedRemedy per comment				use "of burst"			
Proposed Response	Response Status <b>O</b>			Proposed Response Response St	tatus O		
C/ 142 SC 142.2.2.2		L <b>53</b>	# 455	C/ 142 SC 142.2.5.1 Remein, Duane	P <b>80</b> Huawei	L <b>22</b>	# 457
Remein, Duane	Huawei			Comment Type T Comment S	Status X		
Comment Type T	Comment Clature V			· · · )]· · ·			
Comment type	Comment Status X			Definitions for PAR_PLACEHLDR			
If the number of SP zo allowed to transmit and	ones and their bit pattern must d this is determined by the OL nost this should be optional.			Definitions for PAR_PLACEHLDR SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09-09-09-09-09-09-09-09-09	9-09-09-09"		
If the number of SP zo allowed to transmit and setting a default. At m <i>SuggestedRemedy</i>	ones and their bit pattern must d this is determined by the OL			_ SuggestedRemedy			
If the number of SP zo allowed to transmit and setting a default. At m <i>SuggestedRemedy</i>	ones and their bit pattern musi d this is determined by the OL lost this should be optional.			SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09 Proposed Response Response St Cl 142 SC 142.2.2.5.2		L <b>37</b>	# 458
If the number of SP zo allowed to transmit and setting a default. At m SuggestedRemedy Make the SP1 and SP2 Proposed Response Cl 142 SC 142.2.2.4	ones and their bit pattern musi d this is determined by the OL lost this should be optional. 2 default patterns optional. <i>Response Status</i> <b>O</b>			SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09 Proposed Response Response St Cl 142 SC 142.2.2.5.2 Remein, Duane I Comment Type T Comment S This definition of CLK_IN puts the PCS	tatus <b>O</b> P <b>80</b> Huawei Status <b>X</b>		
If the number of SP zo allowed to transmit and setting a default. At m SuggestedRemedy Make the SP1 and SP: Proposed Response Cl 142 SC 142.2.2.4 Wey, Jun Shan	ones and their bit pattern musi d this is determined by the OL lost this should be optional. 2 default patterns optional. <i>Response Status</i> <b>O</b> <b>4.5</b> <i>P</i> <b>75</b>	_T design, I don't	t see the values in	SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09 Proposed Response Response St Cl 142 SC 142.2.2.5.2 Remein, Duane I Comment Type T Comment S This definition of CLK_IN puts the PCS MCRS.	tatus <b>O</b> P <b>80</b> Huawei Status <b>X</b>		
If the number of SP zo allowed to transmit and setting a default. At m SuggestedRemedy Make the SP1 and SP2 Proposed Response CI 142 SC 142.2.2.4 Wey, Jun Shan Comment Type TR	anes and their bit pattern musi d this is determined by the OL lost this should be optional. 2 default patterns optional. <i>Response Status</i> <b>O</b> <b>4.5 P75</b> ZTE TX	_T design, I don't 	t see the values in # 529	SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09-09-09-09-09-09-09-09-09	<i>tatus</i> <b>O</b> <b>P80</b> Huawei Status <b>X</b> S out of phase b		
If the number of SP zo allowed to transmit and setting a default. At m SuggestedRemedy Make the SP1 and SP: Proposed Response Cl 142 SC 142.2.2.4 Wey, Jun Shan Comment Type TR There are 128 switcher SuggestedRemedy	anes and their bit pattern musi d this is determined by the OL loost this should be optional. 2 default patterns optional. <i>Response Status</i> <b>O</b> <b>1.5 P75</b> ZTE TX <i>Comment Status</i> <b>X</b>	_T design, I don't <i>L</i> 34 of i should be fro	t see the values in # 529	SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09 Proposed Response Response St Cl 142 SC 142.2.2.5.2 Remein, Duane I Comment Type T Comment S This definition of CLK_IN puts the PCS MCRS.	<i>tatus</i> <b>O</b> <i>P</i> 80 Huawei S <i>tatus</i> <b>X</b> S out of phase b sing edge"	by 180 degrees	; (1/2 EQ) with the
If the number of SP zo allowed to transmit and setting a default. At m SuggestedRemedy Make the SP1 and SP: Proposed Response Cl 142 SC 142.2.2.4 Wey, Jun Shan Comment Type TR There are 128 switcher SuggestedRemedy	anes and their bit pattern musi d this is determined by the OL lost this should be optional. 2 default patterns optional. <i>Response Status</i> <b>O</b> <b>4.5 P75</b> ZTE TX <i>Comment Status</i> <b>X</b> s at each stage, so the value	_T design, I don't <i>L</i> 34 of i should be fro	t see the values in # 529	SuggestedRemedy Change Value: to "0x 0-09-09-09-09-09-09-09-09-09-09-09-09-09	<i>P</i> 80 Huawei Status X S out of phase b sing edge" 4.3 pg 116 line 2	by 180 degrees 24 change "eac	; (1/2 EQ) with the

C/ 142 SC 142.2.2.5.2

C/ 142 SC 142.2.2.5		L <b>54</b>	# 459	C/ 142 SC 142.2.2		L <b>7</b>	# 462
Remein, Duane	Huawei			Remein, Duane	Huawei		
Comment Type <b>T</b>	Comment Status X as "SP COUNT"; "This FIFO			Comment Type <b>T</b> No such fifo as OUTF	Comment Status X		
The assertion is incorre		noids at most 5	P_COUNT elements.		OT_FIFO (yel)		
SuggestedRemedy				SuggestedRemedy Change "OUTPUT_F			
Change to read: "This F whichever is greater.	FIFO holds either SP_LENG	TH or FEC_PAR	ITY_SIZE elements,	Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status O						
C/ 142 SC 142.2.2.5	. <b>2</b> <i>P</i> 81	L12	# 460	Cl <b>142</b> SC <b>142.2.2</b> Remein, Duane	<b>.5.3</b> <i>P</i> <b>83</b> Huawei	L <b>6</b>	# 463
Remein, Duane	Huawei	L 1 <b>2</b>	# 400	Comment Type T	Comment Status X		
Comment Type E	Comment Status X			We are eliminating th	e Gearbox.		
Constant name should	not cross a line			SuggestedRemedy			
SuggestedRemedy				Change: "PassToGearbox(v)			
Make "FEC_DELAY" no	on-breaking {Esc n s}				a 257-bit vector v to the Gea	arbox for outputting	to the PMA." to:
Proposed Response	Response Status O			PassToPMA(v) This function passes	a 257-bit vector v to the PM	A.	
	. <b>2</b> <i>P</i> 81	L <b>28</b>	# 461	In Fig 142-15 change	""PassToGearbox" to "Pass	ToPMA" in 2 place	s.
Remein, Duane	Huawei			Strike para 142.2.2.6	Gearbox (pg 83)		
Comment Type TR	Comment Status X			Proposed Response	Response Status O		
	at is meant by "Each element that the definition agreed to						
SuggestedRemedy							
The SP array is set to t by the most recent sett	on provided in remein_3ca_3 the provisioned value of the s ings of SP1, SP2, SP3, and o of each cell is set to zero.	ynchronization p					
Proposed Response	Response Status <b>O</b>						

C/ 142 SC 142.2.2.5.3

C/ 142 SC 142.2.2.5.3 P83 L9 # 544	C/ 142 SC 142.2.2.5.4 P84 L17 # 546
Kramer, Glen Broadcom	Kramer, Glen Broadcom
Comment Type <b>TR</b> Comment Status <b>X</b> Transcode() function definition is wrong. It does not do scrambling (see 91.5.2.5).	Comment Type <b>TR</b> Comment Status <b>X</b> In Figure 142-13, variables got mixed up in state NEXT_VECTOR.
SuggestedRemedy 1) Change definition of Transcode() as shown below: Transcode( a[4] ) This function performs 64B/66B to 256B/257B transcoding per 91.5.2.5 and returns the result. It takes an array of four scrambled 66-bit blocks a[4] as an argument and returns a 257-bit vector.	SuggestedRemedy         Restore the text in NEXT_VECTOR to its original form on slide 6 in         remein_3ca_3a_0518.pdf         Proposed Response       Response Status
<ol> <li>In Fig 142-13, in State PROCESS_DATA, insert the following line before TxInput&lt;256:0&gt; &lt;=Transcode( XBUFFER[3:0] ):</li> </ol>	C/         142         SC         142.2.3         P83         L31         #         465           Remein, Duane         Huawei         Huawe
<ul> <li>XBUFFER[3:0] &lt;= Scramble( XBUFFER[3:0] )</li> <li>3) Add the definition for Scramble ( a[4] ) function: Scramble( a[4] )</li> <li>This function scrambles the payload of a 66-bit block per 49.2.6. It takes an array of four 66- bit blocks a[4] as an argument and returns an array of four scrambled 66-bit blocks.</li> </ul>	Comment Type <b>T</b> Comment Status <b>X</b> I believe both 10 & 25G rates will be specified in Cl 142. "In the OLT, the PCS receive function may operate at a 25.78125 Gb/s rate, as specified herein ({NG-EPON type, symmetric}), or at a 10.3125 Gb/s rate, compliant with Clause {TBD} ({NG-EPON type, asymmetric})."
Proposed Response Response Status <b>O</b>	SuggestedRemedy Change to read: "In the OLT, the PCS receive function may operate at a 25.78125 Gb/s rate or at a 10.3125 Gb/s rate."
C/ 142 SC 142.2.2.5.3 P83 L11 # 464 Remein, Duane Huawei	Proposed Response Response Status O
Comment Type E Comment Status X Stray characters "a[4] "	
SuggestedRemedy Strike	
Proposed Response Response Status O	

C/ 142 SC 142.2.3

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Tail

C/ 142 SC 142 Remein, Duane	2.2.3.2	P <b>83</b> Huawei	L <b>48</b>	# 466	<i>Cl</i> <b>142</b> Remein, D	SC 142.2.3.2	P <b>84</b> Huawei	L <b>33</b>	# 469
-									
Comment Type T		mment Status $X$	a aligned with the	e new synchronizer SD.	Comment		Comment Status X yed to the reader by setting	Tylnnut-2575 to "	1"
This lext was aut	opted nom 7		be alighed with the	e new synchronizer SD.			yed to the reader by setting		1.
values of Invalid,	True and Fa		sumes the value		"TxInp	ge: out<57> <= 1" to out<57> <= SCF	RAMBLED"		
SuggestedRemedy						constants in pro MBLED	oper order:		
Replace with:						E binary			
				ero. The process then	Value			et te ditte seels - 111	
		s MatchCount in the VI		constant. If a match is rwise it executes the		n bit 257 of a TxI 56:0 are scramble	nput or TxOutput vector is s ed data.	et to this value it i	indicates that vector
the VERIFY state one FEC_CW_S	e if MatchCo IZE and the	unt is less than MATC process compares the	H_TARGET the upper 10 bits of		Proposed		Response Status <b>O</b>		
		M. If MatchCount is groups of the process		ual to IGNED state where it	C/ 142	SC 142.2.3.2	P <b>84</b>	L <b>33</b>	# 468
sets FecFailCour	nt to zero. If	the FecDecoded goes	s False the proce	ss moves to the	Remein, D	-	. , o <del>u</del> Huawei		" <del>1</del> 00
				coded goes to True	,		Comment Status ¥		
control returns to incremented aga reinitialized.	the ALIGNE in. If FecFai	D state whereas if it g ICount reaches FEC_	goes to False aga FAIL_LIMIT the S	in the FecFailCount in Synchronizer process is	<i>Comment</i> I was i back ir	in error when I sun.	Comment Status X uggested removing the scrar	nbler function. It	needs to be added
control returns to incremented aga reinitialized.	the ALIGNE in. If FecFai	D state whereas if it g	goes to False aga FAIL_LIMIT the S	in the FecFailCount in Synchronizer process is	Comment I was i back ir My apo	in error when I sun n. ologies to the Ed	uggested removing the scrar	nbler function. It	needs to be added
control returns to incremented aga reinitialized. The ONU Synchr	o the ALIGNE in. If FecFai ronizer shall	D state whereas if it g ICount reaches FEC_	goes to False aga FAIL_LIMIT the S	in the FecFailCount in Synchronizer process is	Comment I was i back ir My apo Suggesteo After x	in error when I sun. n. ologies to the Ed <i>Remedy</i> (Index <= 0 add t	uggested removing the scrar litor.	nbler function. It	needs to be added
control returns to incremented aga reinitialized.	o the ALIGNE in. If FecFai ronizer shall	D state whereas if it g ICount reaches FEC_ implement the state di	goes to False aga FAIL_LIMIT the S	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My apo Suggesteo After x TxInpu	in error when I su n. ologies to the Ed <i>Remedy</i> (Index <= 0 add t ut<256:0> <= Sc	uggested removing the scrar litor. he following: rramble( TxInput<256:0> )		needs to be added
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response	o the ALIGNE in. If FecFai ronizer shall <i>Res</i>	D state whereas if it g ICount reaches FEC_ implement the state di	goes to False aga FAIL_LIMIT the S	in the FecFailCount in Synchronizer process is	Comment I was i back ir My apo Suggested After x TxInpu Descri	in error when I su n. ologies to the Ed <i>Remedy</i> (Index <= 0 add t ut<256:0> <= Sc	uggested removing the scrar litor. he following: rramble( TxInput<256:0> ) ided in remein_3ca_1_0918		needs to be added
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response	o the ALIGNE in. If FecFai ronizer shall <i>Res</i>	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My apo Suggested After x TxInpu Descri	n. n. ologies to the Ed <i>IRemedy</i> (Index <= 0 add t ut<256:0> <= Sc iptive text is inclu	uggested removing the scrar litor. he following: rramble( TxInput<256:0> )		needs to be added
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response	o the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My apo Suggested After x TxInpu Descri Proposed	n error when I sun. n. ologies to the Ed d <i>Remedy</i> kIndex <= 0 add t ut<256:0> <= Sc iptive text is inclu <i>Response</i>	uggested removing the scrar litor. he following: rramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b>	.pdf.	
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T	o the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2 R Co DR state the	D state whereas if it g ICount reaches FEC_i implement the state di sponse Status <b>O</b> P84 Huawei	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My apo Suggested After x TxInpu Descri Proposed	rerror when I sun. n. ologies to the Ed dRemedy (Index <= 0 add t ut<256:0> <= Sc iptive text is inclu Response SC 142.2.3.2	uggested removing the scrar litor. the following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b>		needs to be added
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T In NEXT_VECTO	o the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2 R <i>Co</i> DR state the xt	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b> Huawei mment Status <b>X</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My ap Suggested After x TxInpu Descri Proposed I C/ 142 Remein, D	In error when I sun. n. ologies to the Ed <i>dRemedy</i> dIndex <= 0 add t ut<256:0> <= Sc iptive text is inclu <i>Response</i> SC 142.2.3.2 Duane	uggested removing the scrar litor. he following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b> : <i>P</i> <b>84</b> Huawei	.pdf.	
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T In NEXT_VECTO TxNext <= TxNex	o the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2 R <i>Co</i> DR state the xt	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b> Huawei mment Status <b>X</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My ap Suggested After x TxInpu Descri Proposed I Cl 142 Remein, D Comment	in error when I sun. n. ologies to the Ed <i>dRemedy</i> (Index <= 0 add t ut<256:0> <= Sc iptive text is inclu <i>Response</i> SC 142.2.3.2 Duane <i>Type</i> TR	uggested removing the scrar litor. he following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b> : P84 Huawei <i>Comment Status</i> <b>X</b>	.pdf.	
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T In NEXT_VECTO TxNext <= TxNey TxPrev <= NextT SuggestedRemedy Change action to	the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2 <b>R</b> <i>Co</i> DR state the xt 'xVector()	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b> Huawei mment Status <b>X</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My apo Suggested After x TxInpu Descri Proposed Cl 142 Remein, D Comment There	in error when I sun. ologies to the Ed dRemedy kIndex <= 0 add t ut<256:0> <= Sc iptive text is inclu Response SC 142.2.3.2 Duane Type TR is no function "F	uggested removing the scrar litor. he following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b> : P84 Huawei <i>Comment Status</i> <b>X</b>	.pdf.	
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T In NEXT_VECTO TxNext <= TxNey TxPrev <= NextT SuggestedRemedy Change action to TxPrev <= TxNey	the ALIGNE in. If FecFai ronizer shall <i>Res</i> 2.2.3.2 R Co DR state the xt xVector() c: xt	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b> Huawei mment Status <b>X</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My ap Suggested After x TxInpu Descri Proposed I Cl 142 Remein, D Comment There Suggested	in error when I sun. ologies to the Ed dRemedy (Index <= 0 add t ut<256:0> <= Sc iptive text is inclu Response SC 142.2.3.2 Duane Type TR is no function "F dRemedy	uggested removing the scrar litor. he following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b> : P84 Huawei <i>Comment Status</i> <b>X</b> EC_Encoder"	.pdf.	
control returns to incremented aga reinitialized. The ONU Synchr Proposed Response Cl 142 SC 142 Remein, Duane Comment Type T In NEXT_VECTO TxNext <= TxNey TxPrev <= NextT SuggestedRemedy Change action to	the ALIGNE in. If FecFai ronizer shall <b>Res</b> 2.2.3.2 <b>R</b> Co DR state the kt 'xVector() : xt 'xVector()	D state whereas if it g ICount reaches FEC_ implement the state di sponse Status <b>O</b> P <b>84</b> Huawei mment Status <b>X</b>	goes to False aga FAIL_LIMIT the S iagram as depicte	in the FecFailCount in Synchronizer process is ed in Figure 142-14."	Comment I was i back ir My ap Suggested After x TxInpu Descri Proposed I Cl 142 Remein, D Comment There Suggested Chang	in error when I sun. ologies to the Ed dRemedy kIndex <= 0 add t ut<256:0> <= Sc iptive text is inclu Response SC 142.2.3.2 Duane Type TR is no function "F	uggested removing the scrar litor. he following: cramble( TxInput<256:0> ) ided in remein_3ca_1_0918 <i>Response Status</i> <b>O</b> : P84 Huawei <i>Comment Status</i> <b>X</b> EC_Encoder"	.pdf.	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 142	Page 17 of 32
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 142.2.3.2	8/28/2018 6:40:14 AM
SORT ORDER: Clause, Subclause, page, line		

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/         142         SC         142.2.3.2         P84         L45         # 471           Remein, Duane         Huawei	C/         142         SC         142.2.3.2.1         P86         L50         # 474           Remein, Duane         Huawei
Comment Type         T         Comment Status         X           These paras are incorrect and do not describe the synchronizer accepted.         "While in codeword lock, the synchronizer copies the FEC-protected bits from each data block and the parity bits of the codeword into an input buffer. When the codeword is complete, the FEC decoder is triggered, and the input buffer is freed for the next codeword. When in codeword lock, the state diagram continues to check for sync header validity. If 16 or more sync headers in a codeword pair (62 blocks) are invalid, then the state diagram deasserts codeword lock. In addition, if the persist_dec_fail signal becomes set, then	Comment Type       T       Comment Status       X         Typo "lock start" should be "lock state"       SuggestedRemedy       Per comment         Proposed Response       Response Status       O
codeword lock is deasserted (this check ensures that certain false-lock cases are not persistent.)" SuggestedRemedy	C/ <b>142</b> SC <b>142.2.3.2.1</b> P <b>87</b> L <b>1</b> # 475 Remein, Duane Huawei
Strike Proposed Response Response Status O	Comment Type T Comment Status X Where is a PD used?
C/     142     SC     142.2.3.2     P86     L7     # 472       Remein, Duane     Huawei	SuggestedRemedy         Strike definition.         Proposed Response       Response Status         O
Comment Type <b>TR</b> Comment Status <b>X</b> In Figure 142–15 state INIT TxOutput<257:0> statement should be an assignment not a comparison.	C/ <b>142</b> SC <b>142.2.3.2.2</b> P <b>87</b> L <b>8</b> # 476 Remein, Duane Huawei
SuggestedRemedy per comment	Comment Type TR Comment Status X No such variable FecDecodeFail
Proposed Response Response Status O	SuggestedRemedy Replace with:
C/     142     SC     142.2.3.2.1     P86     L43     # 473       Remein, Duane     Huawei       Comment Type     T     Comment Status X	FecDecoded TYPE: Ternary The FecDecoded variable can assume one of three values; "Invalid", True, or False. When read it assumes a value of "Invalid". The variable is set by the FEC decoding engir at the completion of each codeword decoding operation.
No such constant as FecFailLimit or MatchTarget. SuggestedRemedy Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.	Proposed Response Response Status <b>O</b>
Proposed Response Response Status O	

C/ 142 SC 142.2.3.2.2

CI 142 SC 142.2.3.2.2 P87	L12	# 477	CI 142 SC 142.3.2 P90 L4 # 481
emein, Duane Huawei			Remein, Duane Huawei
Comment Type <b>T</b> Comment Status <b>X</b> No such variable FecDecodeSucceed			Comment Type E Comment Status X Well this could be embarrassing: "switch the decoder in appropriately"
Strike			Standards should never be inappropriate.
Proposed Response Response Status <b>O</b>			SuggestedRemedy
			Change to read: "switch in the decoder as appropriate."
C/         142         SC         142.2.3.2.2         P87           Remein, Duane         Huawei         Huawei	L <b>21</b>	# 478	Proposed Response Response Status O
Comment Type T Comment Status X			C/ 142 SC Figure 142-2 P66 L13 # 528
No such variable Match			Wey, Jun Shan ZTE TX
SuggestedRemedy Strike			Comment Type TR Comment Status X "MPRS" should be "MCRS"
Proposed Response Response Status <b>O</b>			SuggestedRemedy Replace "MPRS" with "MCRS"
C/         142         SC         142.2.3.2.2         P87           Remein, Duane         Huawei	L <b>31</b>	# 479	Proposed Response Response Status O
Comment Type E Comment Status X typo "hold" should be "holds"			Cl         143         SC         143.1         P93         L10         # 482           Remein, Duane         Huawei         Huawei
SuggestedRemedy per comment			Comment Type <b>T</b> Comment Status <b>X</b> I think an important point to be made here is that the MCRS is applicable to either P2P or P2MP applications.
roposed Response Response Status O			SuggestedRemedy
			Change:
C/         142         SC         142.2.3.2.3         P87           Remein, Duane         Huawei	L <b>36</b>	# 480	"Generally, single-channel RS specifications enabled a single MAC to interface to a single PHY in point-to-point links, or a multiple MACs to interface to a single PHY in P2MP links (e.g., EPON architectures). This concept is expanded in this clause to allow multiple MAC
Comment Type TR Comment Status X			to interface with multiple PHYs (see Figure 143–1)." to: "Generally, single-channel RS specifications enabled a single MAC to interface to a singl PHY in point-to-point (P2P) links, or a multiple MACs to interface to a single PHY in P2M
No such function Compare			links (e.g., EPON architectures). This concept is expanded in this clause to allow single o
No such function Compare SuggestedRemedy Strike			multiple MACs to interface with multiple PHYs in either P2P or P2MP applications (see Figure 143–1)."

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/143COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC143.1SORT ORDER: Clause, Subclause, page, line

Page 19 of 32 8/28/2018 6:40:14 AM

C/ <b>143</b> SC <b>143.1</b> Hajduczenia, Marek	P <b>93</b> Charter Comr	L <b>47</b> municatio	# 573	C/ <b>143</b> SC <b>143.2.1</b> Hajduczenia, Marek	P <b>94</b> Charter Com	L <b>24</b> municatio	# 574
	Comment Status X ue on aggregating multiple 100 PCS layers are very mature a d multi-lane cpabilities			Comment Type <b>T</b>	Comment Status X ical link identification - see 1.4 identifier"	4.313	
Strike the editorial not	e in lines 46-47			Proposed Response	Response Status 0		
Proposed Response	Response Status 0			C/ 143 SC 143.2.2	P94	1.07	#
				Hajduczenia, Marek	Charter Com	L <b>37</b> municatio	# 575
C/ <b>143</b> SC <b>143.2</b> Wey, Jun Shan	Р <b>94</b> ZTE TX	L1	# 537	Comment Type T	Comment Status X		
Comment Type TR	Comment Status X			An example of such u	neven allocation might be har	ndy.	
primitives.	r concept should be updated t	,			t at the end of 143.2.2: "For e channels associated with 25G		
,	a). See Supplement file wey_	_3ca_2_0918		associated with XGMI	."		
Insert new text in item	a). See Supplement file wey_ Response Status <b>O</b>	_3ca_2_0918					
Insert new text in item Proposed Response Cl 143 SC 143.2	Response Status O	_3ca_2_0918 	# 534	associated with XGMI	."	L <b>47</b>	# [ <u>483</u>
Insert new text in item Proposed Response Cl 143 SC 143.2 Ney, Jun Shan	Response Status O P94 ZTE TX		# 534	associated with XGMI Proposed Response Cl 143 SC 143.2.3	I." Response Status <b>O</b> P <b>94</b>		
Insert new text in item Proposed Response Cl 143 SC 143.2 Vey, Jun Shan Comment Type TR Bandwidth granted to a	Response Status O P94 ZTE TX Comment Status X a GLID is shared among multi b_0317). So within a granted 0	L12	Ds (see e.g.	associated with XGMI Proposed Response Cl 143 SC 143.2.3 Remein, Duane Comment Type E MCRS_CTRL. request() crosses line SuggestedRemedy	I." Response Status O P94 Huawei Comment Status X	L <b>47</b>	
Insert new text in item Proposed Response Cl 143 SC 143.2 Vey, Jun Shan Comment Type TR Bandwidth granted to a zhangweiliang_3ca_1t envelopes of multiple l	Response Status O P94 ZTE TX Comment Status X a GLID is shared among multi b_0317). So within a granted 0	L12 iple member LLII GLID bandwidth t	Ds (see e.g. here would be multiple	associated with XGMI Proposed Response Cl 143 SC 143.2.3 Remein, Duane Comment Type E MCRS_CTRL. request() crosses line SuggestedRemedy	l." <i>Response Status</i> <b>O</b> <i>P</i> 94 Huawei	L <b>47</b>	
Insert new text in item Proposed Response Cl 143 SC 143.2 Vey, Jun Shan Comment Type TR Bandwidth granted to a zhangweiliang_3ca_1t envelopes of multiple I As part of the GLID rei revised.	Response Status O P94 ZTE TX Comment Status X a GLID is shared among multi p_0317). So within a granted O LLIDs.	L12 iple member LLII GLID bandwidth t	Ds (see e.g. here would be multiple	associated with XGMI Proposed Response Cl 143 SC 143.2.3 Remein, Duane Comment Type E MCRS_CTRL. request() crosses line SuggestedRemedy Make MCRS_CTRL.ref	I." Response Status O P94 Huawei Comment Status X equest() none breaking {Esc n	L <b>47</b>	
Insert new text in item Proposed Response 27 143 SC 143.2 Vey, Jun Shan Comment Type TR Bandwidth granted to a zhangweiliang_3ca_1t envelopes of multiple I As part of the GLID rei revised. SuggestedRemedy Add item g) If MCRS_1	Response Status O P94 ZTE TX Comment Status X a GLID is shared among multi p_0317). So within a granted O LLIDs.	L12 iple member LLII GLID bandwidth t mmary of major o bandwidth, the sc	Ds (see e.g. here would be multiple concept) should be heduler in MCRS	associated with XGMI Proposed Response Cl 143 SC 143.2.3 Remein, Duane Comment Type E MCRS_CTRL. request() crosses line SuggestedRemedy Make MCRS_CTRL.ref	I." Response Status O P94 Huawei Comment Status X equest() none breaking {Esc n	L <b>47</b>	
Proposed Response Cl 143 SC 143.2 Wey, Jun Shan Comment Type TR Bandwidth granted to a zhangweiliang_3ca_1t envelopes of multiple I As part of the GLID rel revised. SuggestedRemedy Add item g) If MCRS_1	Response Status O P94 ZTE TX Comment Status X a GLID is shared among multi p_0317). So within a granted ( LLIDS. lated updates, Sec. 143.2 (su CTRL primitive carries GLID b nember LLIDs of GLID, based	L12 iple member LLII GLID bandwidth t mmary of major o bandwidth, the sc	Ds (see e.g. here would be multiple concept) should be heduler in MCRS	associated with XGMI Proposed Response Cl 143 SC 143.2.3 Remein, Duane Comment Type E MCRS_CTRL. request() crosses line SuggestedRemedy Make MCRS_CTRL.ref	I." Response Status O P94 Huawei Comment Status X equest() none breaking {Esc n	L <b>47</b>	

C/ 143 SC 143.2.3

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/ 143         SC 143.2.4.2         P95         L 21         # 576           Hajduczenia, Marek         Charter Communicatio         Charter Communicatio         Charter Communicatio	C/ 143 SC 143.2.4.4 P97 L3 # <u>530</u> Wey, Jun Shan ZTE TX
Comment Type E Comment Status X More "always" statements	Comment Type TR Comment Status X Preample should be IPG
SuggestedRemedy Remove "always" in line 22	SuggestedRemedy Replace "preample" with "IPG"
Proposed Response Response Status <b>O</b>	Proposed Response Response Status <b>O</b>
C/ 143 SC 143.2.4.2 P95 L22 # 484 Remein, Duane Huawei	C/         143         SC         143.2.5         P 97         L 50         # 485           Remein, Duane         Huawei
Comment Type TR Comment Status X This sentence and Fig 143-3 are misleading:	Comment Type E Comment Status X Channel bonding can be done to either US or DS and need not be done to US _AND_ D
(one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3)." While true if only one channel is available to the system it is not generally true for a multi- channel system where the objective is to attain a MAC data rate of more than that of a single channel. In such systems, single frames will be spread over multiple channels and thus each envelope can transport multiple frame fragments.	Change: "simultaneously bound to N1 MCRS transmit channels and N2 MCRS receive channels" "simultaneously bound to N1 MCRS transmit channels or N2 MCRS receive channels" and change: "transmit data rate of N1×25 Gb/s and the receive data rate of N2×25 Gb/s" to:
SuggestedRemedy Change to read: "In a system with a single channel an envelope includes one or more data frames and can contrain at most two partial frames (one at the beginning and one at the and of the	"transmit data rate of N1×25 Gb/s or the receive data rate of N2×25 Gb/s" <i>Proposed Response</i> Response Status <b>O</b>
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the	Proposed Response Response Status O
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be	Proposed Response Response Status O
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be simultaneously transmitted over multiple channels with each channel transporting parts of a	Proposed Response         Response Status         O           Cl 143         SC 143.2.5         P97         L51         # 578
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be simultaneously transmitted over multiple channels with each channel transporting parts of a single frame. However, at the conclusion of the overlapped transmission only a single frame can remain fragmented."	Proposed Response       Response Status       O         C/ 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio       # 578
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be simultaneously transmitted over multiple channels with each channel transporting parts of a single frame. However, at the conclusion of the overlapped transmission only a single	Proposed Response       Response Status       O         Cl 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio       Comment Type       TR       Comment Status       X         N1 and N2 are undefined - these variables show up in the text in a rather unexpected was
Cl 143 SC 143.2.4.4 P96 L46 # 577	Proposed Response       Response Status       O         Cl 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio         Comment Type       TR       Comment Status       X         N1 and N2 are undefined - these variables show up in the text in a rather unexpected was and not explained what these are       Source and the second status
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be simultaneously transmitted over multiple channels with each channel transporting parts of a single frame. However, at the conclusion of the overlapped transmission only a single frame can remain fragmented." Proposed Response Response Status <b>O</b>	Proposed Response       Response Status       O         Cl 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio         Comment Type       TR       Comment Status       X         N1 and N2 are undefined - these variables show up in the text in a rather unexpected was and not explained what these are       SuggestedRemedy         Either add some explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are, or remove them altogether - right not explanation to what N1 and N2 are on the prove them altogether - right not explanation to what N1 and N2 are on the prove them altogether - righ
Cl 143 SC 143.2.4.4 P96 L46 # 577	Proposed Response       Response Status       O         Cl 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio       578         Comment Type       TR       Comment Status       X         N1 and N2 are undefined - these variables show up in the text in a rather unexpected waa and not explained what these are       SuggestedRemedy         Either add some explanation to what N1 and N2 are, or remove them altogether - right not it does not serve to explain what it is intended
Change to read: "In a system with a single channel an envelope includes one or more data frames and can contain at most two partial frames (one at the beginning and one at the end of the envelope) and any number of whole frames (see Figure 143–3). In systems with multiple channels envelopes may overlap as explained in 143.2.5 and frames can be simultaneously transmitted over multiple channels with each channel transporting parts of a single frame. However, at the conclusion of the overlapped transmission only a single frame can remain fragmented." Proposed Response Response Status O C/ 143 SC 143.2.4.4 P96 L46 # 577 Hajduczenia, Marek Charter Communicatio Comment Type E Comment Status X	Proposed Response       Response Status       O         Cl 143       SC 143.2.5       P97       L51       # 578         Hajduczenia, Marek       Charter Communicatio       578         Comment Type       TR       Comment Status       X         N1 and N2 are undefined - these variables show up in the text in a rather unexpected waa and not explained what these are       SuggestedRemedy         Either add some explanation to what N1 and N2 are, or remove them altogether - right not it does not serve to explain what it is intended

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

C/ 143 SC 143.2.5 Page 21 of 32 8/28/2018 6:40:14 AM

C/ 143 SC 143.2.5	P <b>98</b>	L <b>30</b>	# 579	C/ 143 SC 143.3.1	P103	L <b>5</b>	# 580
Hajduczenia, Marek	Charter Com	municatio		Hajduczenia, Marek	Charter Cor	nmunicatio	
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
Figure 143-6 uses dif (color is too light)	ferent colors for LLID a and LI	LID B, making LL	ID B bars hard to read		PLS service interfaces" - irres LS" = Multi Protocol Label Sv		nany times I read it, it
SuggestedRemedy				SuggestedRemedy			
	or LLID A and B alike. Also, fo		bility, consider using	To avoid confusion, o	an we switch from "M" to "K	' (for example)?	
	es and dotted vertical guide lir	ies		Proposed Response	Response Status O		
Proposed Response	Response Status <b>O</b>						
C/ 143 SC 143.2.5	.1 <i>P</i> 98	L <b>41</b>	# 538	C/ 143 SC 143.3.1		L <b>7</b>	# 581
Vey, Jun Shan	ZTE TX	L41	# 536	Hajduczenia, Marek	Charter Cor	nmunicatio	
	Comment Status X			Comment Type E	Comment Status X		
Comment Type TR	scribes LLID transmission ove		channels. The	Forward looking refer	ence to EPON-specific figure	e	
	the following aspects and she			SuggestedRemedy			
	ect the information of channel			Drop "and Figure 143	-18" - it is not needed + upda	ate Figure 143-10	accordingly
for data transmission An EQ is delivered are more than one su	ect the information of channel over the channel that has the ich channel, the one with the l	availability and th earliest transmis owest channel inc	e related time duration sion availability. If there dex value is selected.	Drop "and Figure 143 Proposed Response	-18" - it is not needed + upda Response Status <b>O</b>	ate Figure 143-10	accordingly
for data transmission ☐ An EQ is delivered are more than one su ☐ EQs are delivered EQs transmitted over	ect the information of channel over the channel that has the	availability and th earliest transmis owest channel inc on channel transi I into one envelop	e related time duration sion availability. If there dex value is selected. mission availability. The be.		Response Status O	L <b>41</b>	accordingly # <u>582</u>
for data transmission ☐ An EQ is delivered are more than one su ☐ EQs are delivered EQs transmitted over ☐ The grant allocation	ect the information of channel over the channel that has the ich channel, the one with the l over multiple channels based the same channel are formed	availability and th earliest transmis owest channel inc on channel transi I into one envelop	e related time duration sion availability. If there dex value is selected. mission availability. The be.	Proposed Response Cl 143 SC 143.3.1	Response Status O	L <b>41</b>	
for data transmission <ul> <li>An EQ is delivered</li> <li>are more than one su</li> <li>EQs are delivered</li> <li>EQs transmitted over</li> <li>The grant allocation</li> </ul>	ect the information of channel over the channel that has the ich channel, the one with the l over multiple channels based the same channel are formed	availability and th earliest transmis owest channel inc on channel transi I into one envelop	e related time duration sion availability. If there dex value is selected. mission availability. The be.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek	Response Status O .1 P103 Charter Cor Comment Status X	L <b>41</b>	
for data transmission <ul> <li>An EQ is delivered</li> <li>are more than one su</li> <li>EQs are delivered</li> <li>EQs transmitted over</li> <li>The grant allocation</li> </ul>	ect the information of channel over the channel that has the ich channel, the one with the l over multiple channels based the same channel are formed n in figure 143-7 could be opti	availability and th earliest transmis owest channel inc on channel transi I into one envelop	e related time duration sion availability. If there dex value is selected. mission availability. The be.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy	Response Status 0 .1 P103 Charter Cor Comment Status X RSs"	L <b>41</b>	
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation SuggestedRemedy See also Supplement Proposed Response Cl 143 SC 143.2.5	t file wey_3ca_2_0918 Response Status <b>O</b>	availability and th earliest transmis owest channel inc on channel transi I into one envelop	e related time duration sion availability. If there dex value is selected. mission availability. The be.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel	Response Status 0 .1 P103 Charter Cor Comment Status X RSs"	L <b>41</b>	
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation SuggestedRemedy See also Supplement Proposed Response Cl 143 SC 143.2.5 Remein, Duane	t file wey_3ca_2_0918 Response Status <b>O</b>	availability and th earliest transmis owest channel inc on channel transm t into one envelop mized to maximiz	e related time duration ssion availability. If there dex value is selected. mission availability. The be. the peak rate.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response	Response Status 0 .1 P103 Charter Cor Comment Status X RSs" lle channel RS," Response Status 0	L <b>41</b> nmunicatio	# <u>582</u>
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation SuggestedRemedy See also Supplement Proposed Response Cl 143 SC 143.2.5 Remein, Duane Comment Type T	the information of channel over the channel that has the ich channel, the one with the l over multiple channels based the same channel are formed in figure 143-7 could be opti tille wey_3ca_2_0918 <i>Response Status</i> <b>O</b> <b>.3 P99</b> Huawei	availability and th earliest transmis owest channel inc on channel transm t into one envelop mized to maximiz	e related time duration ssion availability. If there dex value is selected. mission availability. The be. the peak rate. # 486	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response Cl 143 SC 143.3.1	Response Status       O         .1       P103         Charter Cor         Comment Status       X         RSs"         Ile channel RS,"         Response Status       O         .1       P103	L41 nmunicatio L45	
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation GuggestedRemedy See also Supplement Proposed Response Comment Type T While 33 is a good nu	t file wey_3ca_2_0918 Response Status O	availability and th earliest transmis owest channel inc on channel transm t into one envelop mized to maximiz	e related time duration ssion availability. If there dex value is selected. mission availability. The be. the peak rate. # 486	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek	Response Status       O         .1       P103         Charter Cor       Comment Status         Comment Status       X         RSs"       RSs"         gle channel RS,"       Response Status       O         .1       P103       Charter Cor         .1       P103       Charter Cor	L41 nmunicatio L45	# <u>582</u>
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation GuggestedRemedy See also Supplement Proposed Response C/ 143 SC 143.2.5 Remein, Duane Comment Type T While 33 is a good nu GuggestedRemedy Change:	ect the information of channel over the channel that has the ich channel, the one with the I over multiple channels based the same channel are formed n in figure 143-7 could be opti t file wey_3ca_2_0918 <i>Response Status</i> <b>O</b> .3 <i>P</i> 99 Huawei <i>Comment Status</i> <b>X</b> umber for 50G-EPON it may n	availability and th earliest transmis owest channel inc on channel transm t into one envelop mized to maximiz	e related time duration ssion availability. If there dex value is selected. mission availability. The be. the peak rate. # 486	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response Cl 143 SC 143.3.1	Response Status       O         .1       P103         Charter Cor         Comment Status       X         RSs"         Ile channel RS,"         Response Status       O         .1       P103         Charter Cor         Charter Cor         Comment Status         X         Charter Cor         Charter Cor         Charter Cor         Comment Status         X	L41 nmunicatio L45	# <u>582</u>
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation GuggestedRemedy See also Supplement Proposed Response Cl 143 SC 143.2.5 Remein, Duane Comment Type T While 33 is a good nu SuggestedRemedy Change: "The number of rows " 32. This provides	ect the information of channel over the channel that has the ich channel, the one with the I over multiple channels based the same channel are formed n in figure 143-7 could be opti t file wey_3ca_2_0918 <i>Response Status</i> <b>O</b> .3 <i>P</i> 99 Huawei <i>Comment Status</i> <b>X</b> umber for 50G-EPON it may n is set to sufficient buffering" to:	availability and th earliest transmis owest channel inc on channel transm l into one envelop mized to maximiz	te related time duration esion availability. If there dex value is selected. mission availability. The be. te the peak rate. # [486] eneric sense.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E Primitive name broke SuggestedRemedy	Response Status       O         .1       P103         Charter Cor         Comment Status       X         RSs"         lle channel RS,"         Response Status       O         .1       P103         .1       P103         Charter Cor         .1       P103         Charter Cor         Comment Status       X         n across line	L41 nmunicatio L45 nmunicatio	# <u>582</u>
for data transmission An EQ is delivered are more than one su EQs are delivered EQs transmitted over The grant allocation SuggestedRemedy See also Supplement Proposed Response Cl 143 SC 143.2.5 Remein, Duane Comment Type T While 33 is a good nu SuggestedRemedy Change: "The number of rows " 32. This provides " a size sufficient t	ect the information of channel over the channel that has the ich channel, the one with the I over multiple channels based the same channel are formed n in figure 143-7 could be opti t file wey_3ca_2_0918 <i>Response Status</i> <b>O</b> .3 P99 Huawei <i>Comment Status</i> <b>X</b> umber for 50G-EPON it may n is set to	availability and th earliest transmis owest channel inc on channel transm l into one envelop mized to maximiz	te related time duration esion availability. If there dex value is selected. mission availability. The be. te the peak rate. # [486] eneric sense.	Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E "In all single channel SuggestedRemedy Change to "In all sing Proposed Response Cl 143 SC 143.3.1 Hajduczenia, Marek Comment Type E Primitive name broke SuggestedRemedy	Response Status       O         .1       P103         Charter Cor         Comment Status       X         RSs"         Ile channel RS,"         Response Status       O         .1       P103         Charter Cor         Charter Cor         Comment Status         X         Charter Cor         Charter Cor         Charter Cor         Comment Status         X	L41 nmunicatio L45 nmunicatio	# <u>582</u>

TTPE: TR/lechnical required ER/editorial required GR/gene	rai required Thechnical Electional Gigeneral	0/ 143	Page ZZ OF 3Z
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 143.3.1.1	8/28/2018 6:40:14 AM
SORT ORDER: Clause, Subclause, page, line			

	3 L53 r Communicatio	# 584	C/ 143 SC 143.3.2 Kramer. Glen	P <b>105</b> Broadcom	L <b>50</b>	# 540
Comment Type E Comment Status Commen	x		Comment Type <b>TR</b> The description of En header. Envelope header field	Comment Status X velope Header format does n ls are defined not in correct o on of CRC8 calculation metho	rder.	
Proposed Response Response Status	C			43.3.2 with the text, figures, a pdf. (kramer_3ca_2_0918.pd		
Idia     SC 143.3.1.2     P105       iemein, Duane     Huawei       comment Type     E     Comment Status       ist instance of MPCP       cuggestedRemedy       Change "MPCP" to Multi-Point Control Protocom	i X	# 487	Main changes: 1) Indicate bit signifin kramer_3ca_1_0918. 2) Clarify bit order: "C significant to most sig (same text as we use 3) Add references to	ce for various header fileds ir pdf (see red text) ctets within each envelope he nificant. Bits within each octe	I Figure 143-11, a eader field are tra et are transmitted	s shown in nsmitted from least from LSB to MSB."
roposed Response Response Status	C		Proposed Response	Response Status <b>O</b>		
C/         143         SC         143.3.1.2.1         P105           Vey, Jun Shan         ZTE TX		# 535	Cl 143 SC 143.3.2 Remein, Duane	Р <b>106</b> Нuawei	L <b>44</b>	# 488
Comment Type <b>TR</b> Comment Status <b>X</b> Bandwidth granted to a GLID is shared amon zhangweiliang_3ca_1b_0317). So within a gra envelopes of multiple LLIDs. The format of M env_length) primitive indicates EQs from LLID length(env_length) from position(epam) on ch represents a ULID/MLID/PLID. However, if lin	anted GLID bandwidth th anted GLID bandwidth th ICRS_CTRL[ch].request( D(link_id) form an envelo nannel(ch). The syntax is nk_id represents a GLID,	ere would be multiple link_id, epam, pe of correct if link_id it is incorrect to use	Comment Type E Typo "received" shou in "value is ignored at SuggestedRemedy per comment Proposed Response	Comment Status X d be "receiver" the received except for" Response Status 0		
the parameter 'env_length' in the MCRS_CTF						
the parameter 'env_length' in the MCRS_CTF LLIDs form multiple envelopes on the specific indicate the length of the granted GLID bandw 'grant_length' which would apply to all LLID ty	ed channel. The MCRS_0 width instead. It is more a	CNTL primitive should	<i>Cl</i> <b>143</b> <i>SC</i> <b>143.3.3</b> Remein, Duane	1 <i>P</i> 108 Huawei	L33	# [489
the parameter 'env_length' in the MCRS_CTF LLIDs form multiple envelopes on the specific indicate the length of the granted GLID bandv 'grant_length' which would apply to all LLID ty uggestedRemedy	ed channel. The MCRS_0 width instead. It is more a	CNTL primitive should	Remein, Duane Comment Type E		L33	# [ <u>489</u>
the parameter 'env_length' in the MCRS_CTF LLIDs form multiple envelopes on the specific indicate the length of the granted GLID bandw	ed channel. The MCRS_( width instead. It is more a ypes.	CNTL primitive should	Remein, Duane	Huawei	L33	# 489

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 143	I
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 143.3.3.1	8
SORT ORDER: Clause, Subclause, page, line			

Page 23 of 32 8/28/2018 6:40:14 AM

C/ 143 SC 143.3.3.3 P108 L51 # 541 Kramer, Glen Broadcom	C/         143         SC         143.3.3.3         P108         L52         # 490           Remein, Duane         Huawei
Comment Type TR Comment Status X The concept of EQ is introduced in clause 143. It makes more sense to have all EQ constants defined in the same clause.	Comment Type TR Comment Status X ADJ_BLOCK_SIZE details needed SuggestedRemedy
<ul> <li>uggestedRemedy</li> <li>1) Move definitions of IBI_EQ and RATE_ADJ_EQ from 142.2.2.5.1 Constants to 143.3.3.3 Constants.</li> <li>2) in 143.3.3.3, change the definition of INTER_ENV_IDLE into following:</li> <li>IEI_EQ</li> <li>TYPE: 72-bit vector</li> </ul>	TYPE: integer Value: implemention dependent. The ADJ_BLOCK_SIZE represents the number of EQs that encode to a single FEC codeword in the Nx25G-EPON system. This change is included in remein <u>3ca</u> _2_0918.pdf.
Value: 0xFF-08-08-08-08-08-08-08-08 The Inter-Envelope Idle represents an EQ value transmitted between envelopes. 3) Replace remaining instances of INTER_ENV_IDLE with IEI_EQ.	Proposed Response Response Status O
roposed Response Response Status O	C/         143         SC         143.3.3.3         P109         L3         #         492           Remein, Duane         Huawei
/ 143 SC 143.3.3.3 P108 L52 # 491 emein, Duane Huawei	Comment Type <b>T</b> Comment Status <b>X</b> INTER_ENV_IDLE has been replaced with IEI_EQ.
The value or size of severl constants and variables are application dependent. As such in 143.3.3 and 143.3.4 this shold be reflected in the definition. Application specific definitons should be noted in 143.4.1.x.	SuggestedRemedy         Replace "INTER_ENV_IDLE" with "IEI_EQ" here and at pg 115 line 43         On pg 117 line 19 & 20 replace "INTER_ENV_IDLE" with "Inter-Envelope Idle"         Proposed Response       Response Status         O
See remein_3ca_2_0918.pdf for specific changes and additions	
roposed Response Response Status O	C/         143         SC         143.3.3.3         P109         L15         # 493           Remein, Duane         Huawei
	Comment Type TR Comment Status X RATE_ADJ_EQ details needed
	SuggestedRemedy replace "{TBD}" with "0xFF-09-09-09-09-09-09-09-09"

Proposed Response Response Status **O** 

C/ 143 SC 143.3.3.3

C/ 143 SC 143.3.3.3 Remein, Duane	3 <i>P</i> 109 Huawei	L19	# 494	C/ 143 SC 143.3.3 Remein, Duane	.4 <i>P</i> 109 Huawei	L <b>40</b>	# 497
Comment Type <b>TR</b> RATE_ADJ_SIZE deta	Comment Status X			Comment Type E Given that this is sec	Comment Status X tion is intended to be generic v	ve should omit th	is sentence "For 100
SuggestedRemedy					or 50 Gb/s devices $N = 2$ , and base xMII rate which can be eit		
TYPE: integer Value: implementation The RATE_ADJ_SIZE	n dependent. Evariable represents the numb	er of EQs that e	ncode to a single FEC	SuggestedRemedy per comment			
parity word in the Nx2	5G-EPON system.			This change is includ	ed in remein_3ca_2_0918.pdf.		
This change is include	ed in remein_3ca_2_0918.pdf.			Proposed Response	Response Status <b>0</b>		
Proposed Response	Response Status O						
				C/ 143 SC 143.3.3	.4 P109	L <b>46</b>	# 498
C/ 143 SC 143.3.3.4		L <b>31</b>	# 495	Remein, Duane	Huawei		
Remein, Duane	Huawei			Comment Type T	Comment Status X		
Comment Type <b>TR</b> BlkLeft details needed	Comment Status X			this variable represer	of the variable the following sta its the number of EQ periods s		
SuggestedRemedy TYPE: integer				channel." Also it should be note without a grant).	ed that EnvLeft[] is none roll-ov	er (assuming an	ONU can go > 21ms
The BlkLeft variable re being processed by th	epresents the number of EQs r e MCRS.	emaining in the	envelope currently	SuggestedRemedy			
Proposed Response	Response Status O				ole represents the number of E	Q periods since	the end of the last
				envelope on the char "if negative this varial	inel." to: ole represents the minimum nu	umber of EQ peri	ods since the end of
C/ 143 SC 143.3.3.4	4 <i>P</i> 109 Huawei	L <b>36</b>	# 496	the last envelope on			
Remein, Duane				Add at end of descrip	tion "At terminal count this var	iable does not ro	llover."
Comment Type <b>TR</b> ENV_TX is not a 72-bi	Comment Status X it shift register as implied by "7	2-bit binary arra	У"	Proposed Response	Response Status O		
SuggestedRemedy							
Change TYPE: to "arra	ay of 72-bit vectors"						
This change is include	ed in remein_3ca_2_0918.pdf.						
Proposed Response	Response Status 0						

C/ 143 SC 143.3.3.4 Page 25 of 32 8/28/2018 6:40:14 AM

### Received Comments ical

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/ <b>143</b> SC <b>143.</b> Remein, Duane	3.3.4	P <b>109</b> Huawei	L <b>51</b>	# 499	<i>Cl</i> <b>143</b> Remein, D		143.3.3.4	P <b>110</b> Huawei	L <b>25</b>	# 501
Comment Type T	Comm	ent Status X			Comment		Е	Comment Status X		
51	se of this variat	ble is skew remedi	iation not the row	v index into ENV_TX			_	K so this phrase is extrane	eous and should	be stricken "for channe
SuggestedRemedy Change:					Suggested per co	<i>dRemed</i> y omment	У			
is to be written, its between two or me	primary functio ore channels fro	on is to remove ske om a single transm	ew accumulated nitter." to:	0	Proposed	Respon	se	Response Status O		
	from a single tra	ansmitter. Its lowe	er bits are also u	transport between two sed as the row index for	<i>Cl</i> <b>143</b> Remein, D		143.3.3.4	P <b>110</b> Huawei	L <b>29</b>	# 502
Proposed Response	Respons	se Status <b>O</b>			<i>Comment</i> TxAct		T ription nee	Comment Status X		
C/ 143 SC 143.	3.3.4	P110	L16	# 500	Suggestee	dRemedy	У			
Remein, Duane		P <b>110</b> Huawei ent Status <b>X</b>	L16	# 500	Repla currer	ice { desi ntly enab	cription } w	with "When True the TxActi e. When this variable is Fal		
Remein, Duane	comme	Huawei ent Status X	L16	# 500	Repla currer prohib	nce { deso ntly enab pited at a	cription } w led for use Ill times."	e. When this variable is Fal		
Remein, Duane Comment Type TR We seem to have	comme	Huawei ent Status X	L16	# 500	Repla currer	nce { deso ntly enab pited at a	cription } w led for use Ill times."			
Remein, Duane Comment Type TR We seem to have SuggestedRemedy Add: rCol	comme	Huawei ent Status X	L16	# <u>500</u>	C/ 143	ice { desi ntly enab bited at a <i>Respons</i> SC 1	cription } w led for use Ill times."	e. When this variable is Fal		
Remein, Duane Comment Type TR We seem to have SuggestedRemedy Add: rCol TYPE: Integer	Comme lost rCol definiti	Huawei ent Status X ion		# 500	Repla currer prohib Proposed	ice { desi ntly enab bited at a <i>Respons</i> SC 1	cription } w led for use Ill times." se	e. When this variable is Fal Response Status <b>O</b>	se transmission o	on channel c is
Remein, Duane Comment Type TR We seem to have SuggestedRemedy Add: rCol TYPE: Integer The rCol variab	comme lost rCol definiti le represents th Each column c	Huawei ent Status X ion e ENV_TX buffer of corresponds to a se	column currently	being read by the sion channel, i.e., a	Cl 143 Remein, E Comment	ice { desc ntly enab bited at a <i>Respons</i> SC 1 Duane	cription } w led for use ill times." se 143.3.3.5 TR	e. When this variable is Fal Response Status <b>0</b> P111	L11	on channel c is # <u>503</u>
Remein, Duane Comment Type TR We seem to have SuggestedRemedy Add: rCol TYPE: Integer The rCol variab Transmit process.	comme lost rCol definiti le represents th Each column c rface. The size	Huawei ent Status X ion e ENV_TX buffer of corresponds to a se of this variable is i	column currently eparate transmis mplementation s	being read by the sion channel, i.e., a	Cl 143 Remein, E Comment	ice { desc htly enab bited at a <i>Respons</i> SC 1 Duane <i>Type</i> IlerEQ fu	cription } w led for use ill times." se 143.3.3.5 TR inction not	e. When this variable is Fal Response Status <b>0</b> P111 Huawei Comment Status <b>X</b>	L11	on channel c is # <u>503</u>
Remein, Duane Comment Type TR We seem to have SuggestedRemedy Add: rCol TYPE: Integer The rCol variab Transmit process. separate xMII inte	lost rCol definiti le represents th Each column c rface. The size	Huawei ent Status X ion e ENV_TX buffer of corresponds to a se of this variable is i	column currently eparate transmis mplementation s	being read by the sion channel, i.e., a	Cl 143 Remein, E Comment GetFil	ice { desc httly enab bited at a <i>Respons</i> <i>SC</i> 1 Duane <i>Type</i> IlerEQ fu <i>dRemed</i>	cription } w led for use ill times." se 143.3.3.5 TR Inction not	e. When this variable is Fal Response Status <b>0</b> P111 Huawei Comment Status <b>X</b>	L11 LnvStartHeader	m channel c is # <u>503</u>

C/ 143 SC 143.3.3.5 Page 26 of 32 8/28/2018 6:40:14 AM

C/ 143 SC 143.3.3.6.1	P <b>113</b>	L <b>21</b>	# 504	C/ 143 SC 143.3.4.	3 P116	L11	# 507
Remein, Duane	Huawei			Remein, Duane	Huawei		
Comment Type <b>TR</b> What does "LinkId[wCol]	Comment Status X ? 0x00-00" mean?				Comment Status X ion is intended to be generic y		
SuggestedRemedy Change "?" to "!="					or 50 Gb/s devices N = 2, and ase xMII rate which can be ei		
5	Response Status O			SuggestedRemedy per comment			
				This change is include	ed in remein_3ca_2_0918.pdf		
C/ 143 SC 143.3.3.6.2 Remein, Duane	P <b>113</b> Huawei	L <b>45</b>	# 505	Proposed Response	Response Status O		
	Comment Status X ant with the 2nd sentence in e diagram is instantiated fo		nd should be stricken:	<i>Cl</i> <b>143</b> <i>SC</i> <b>143.3.4.</b> Remein, Duane	3 P116 Huawei	L <b>52</b>	# 508
SuggestedRemedy per comment				Comment Type <b>TR</b> We seem to have lost	Comment Status X wCol and wRow definitions		
Proposed Response	Response Status O			SuggestedRemedy			
C/ 143 SC 143.3.4.3 Remein, Duane	P <b>116</b> Huawei	L7	# 506	Add: wCol The wCol variable i	epresents the ENV_RX buffe h column corresponds to a se e.		
C/ 143 SC 143.3.4.3 Remein, Duane	P116 Huawei Comment Status X	L7	# 506	Add: wCol The wCol variable i Receive process. Eac separate xMII interfac wRow	h column corresponds to a se e.	eparate reception	channel, i.e., a
C/ <b>143</b> SC <b>143.3.4.3</b> Remein, Duane Comment Type <b>TR</b> ENV_RX is not a 72-bit s	P116 Huawei Comment Status X hift register	L <b>7</b>	# 506	Add: wCol The wCol variable i Receive process. Eac separate xMII interfac wRow	h column corresponds to a se	eparate reception	channel, i.e., a
C/ 143 SC 143.3.4.3 Remein, Duane Comment Type TR ENV_RX is not a 72-bit s SuggestedRemedy Change TYPE: to "array	P116 Huawei Comment Status X hift register	L7	# 506	Add: wCol The wCol variable of Receive process. Eac separate xMII interfact wRow The wRow variable the Receive process.	h column corresponds to a se e.	eparate reception er row index curre	channel, i.e., a

C/ 143 SC 143.3.4.3 Page 27 of 32 8/28/2018 6:40:14 AM

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Ta

C/ <b>143</b> SC <b>143.4.1</b> Remein, Duane	Р <b>121</b> Нuawei	L <b>3</b>	# 509	C/ 143 SC 143.4.1 Remein, Duane	P <b>121</b> Huawei	L10	# 511
Comment Type E Duplicate alpha list) Alp SuggestedRemedy Remove the dup "alpha Proposed Response	Comment Status X wha list) not needed.			Comment Type E Duplicate statement with the OLT to the ONU is re	Comment Status X Pg 119 line 43: An MCRS ferred to as the downstrea an ONU to the OLT is refer	m channel (DC),	and the channel that
					Response Status <b>O</b>		
Cl 143 SC 143.4.1 Remein, Duane Comment Type T Assuming we will use 1 SuggestedRemedy Change: "supporting 25 Gb/s op "supporting 25 Gb/s or	eration" to:	L3	# <u>510</u>	Cl 143 SC 143.4.1.2 Wey, Jun Shan Comment Type ER Typo "were" should be "w SuggestedRemedy	P <b>121</b> ZTE TX <i>Comment Status</i> X /here"	L <b>48</b>	# 531
roposed Response	Response Status <b>O</b>			Proposed Response	Response Status <b>O</b>		
7 <b>143</b> SC <b>143.4.1</b> ajduczenia, Marek	P121 Charter Com	L <b>4</b> nunicatio	# 585	C/ 143 SC 143.4.1.2 Remein, Duane	P <b>122</b> Huawei	L1	# 512
Comment Type E Double lettered list SuggestedRemedy Remove one of the list Proposed Response	Comment Status X levels Response Status <b>O</b>				Comment Status X of the preceding para whic mechanisms of achieving t Response Status <b>0</b>		

C/ 143 SC 143.4.1.2

7 <b>143</b> SC <b>143.4.1.2</b> /ey, Jun Shan	Р <b>122</b> ZTE TX	L <b>12</b>	# 532	C/ 144 Kramer, Gle	SC ·	144	P <b>127</b> Broadcom	L1	# 548
				<u>,</u>					
<i>comment Type</i> <b>ER</b> "transmit on DC0 and	Comment Status X			Comment 7		TR state dia	Comment Status X grams in clause 144 were co	nied from Claus	e 77 but they are not
uggestedRemedy				applica	ble to 8	302.3ca:	-		
Change to 'receive' on	DC0 and DC1						very Processing OLT Registovery Processing OLT Final Registry		
roposed Response	Response Status <b>O</b>			Figure	144–19	)—Disco	very Processing ONU Regist	ration state diag	gram
							OVERY Activation ONU state dation ONU state diagram)	e diagram (miss	ing alignment with
7 143 SC 143.5	P124	L <b>2</b>	# 586	Figure	144–24	I—Gate I	Processing state diagram at t Processing state diagram a		
ajduczenia, Marek	Charter Comr		# 560				t Processing state diagram a		
comment Type E	Comment Status X			MPCP	cannot	generate	e keep-alive REPORTs beca	use without spe	cific PLID envelope
Wrong capitalization: M	IULTI-CHANNEL Reconciliat	ion SUBLAYER					be transmitted. A different m		
uggestedRemedy				Many o	of the co	onstant, v	variable, function, and messa	age definitions a	re missing
	nel Reconciliation Sublayer"			Suggestedl	Remed	У			
The same fix needed on page 125, line 4/5Proposed ResponseResponse StatusO			Replac Main ch			ause 144 with the material p	rovided in kram	er_3ca_3_0918.pdf.	
				daigran	n in the	OLT an	YNC_PATTERN MPCPDU F d in the ONU to guarantee th ceived 2 or 3 SYNC_PATTE	e proper alignm	ent (i.e., ONU respond
							erfaces and added interface SI + MCSR, MCII + MCIR, M		iations for indication ar
				3) Intro state di			and more concise notation fo	r processing me	essages withing the
				4) Adde	ed miss	sing defir	itions.		
				5) Tota	ıl numb	er of stat	e diagrams reduced from 14	to 10	
				6) Adde	ed alloc	ations fr	o LLID values per editorial ne	ote on page 152	
				7) Clea	ined up	definitio	ns of set access methods (Is	Emty, Clear, Re	emoveHead, PeekHeac
				some s	subclau	ses (mos	stly introductory text) are to b	e supplied at a l	later time.
				Proposed F	Respon	se	Response Status 0		

C/ 144 SC 144 Page 29 of 32 8/28/2018 6:40:14 AM

C/ <b>144</b> SC <b>144</b> Kramer, Glen	P <b>127</b> Broadcom	L <b>1</b>	# 549	Cl 144 SC 144.1.2 Hajduczenia, Marek	P <b>128</b> Charter Com	L <b>24</b> imunicatio	# <u>589</u>
<i>Comment Type</i> <b>TR</b> Clause 144 contains a lo	Comment Status X	aterial is confusi	ing.	Comment Type E C "Figure 144–2 depict" and s	omment Status X hould be "Figure 144–2	2 depicts"	
uggestedRemedy Organize the clause into	o separate areas (in this orde	er):		SuggestedRemedy Per comment			
1) General introduction c EPON.	of P2MP operations for reade	ers familiar with	Ethernet, but not with	Proposed Response Re	esponse Status O		
	operation (parsing and multi ratoions (currently two protoc ontrol Protocol [CCP])		Control Protocol	C/ 144 SC 144.1.2 Hajduczenia, Marek	P <b>128</b> Charter Com	L <b>32</b> Imunicatio	# 590
Adopt the clause outline	as shown in kramer_3ca_3	_0918.pdf.		••	omment Status X		
Proposed Response	Response Status O			"This clause also specifies a	a specific " - a tad to	o specific :)	
				SuggestedRemedy Change to "This clause also	defines a specific"		
il 144 SC 144.1 ajduczenia, Marek	P <b>128</b> Charter Comm	L <b>12</b> nunicatio	# 587	6	esponse Status <b>O</b>		
<i>comment Type</i> <b>T</b> Missing reference in red	Comment Status X			C/ 144 SC 144.1.2	P <b>128</b>	L <b>36</b>	# 591
uggestedRemedy				Hajduczenia, Marek	Charter Com	municatio	
Change "see LLID in <t live</t 	BD, Clause 143>" to "see LL	-ID in 143.2.1" -	make sure the link is	Comment Type E C MPCP has been expanded I	omment Status X		
roposed Response	Response Status <b>O</b>			SuggestedRemedy Change "MultiPoint Control	Protocol (MPCP)," to "N	MPCP"	
7 144 SC 144.1.1 lajduczenia, Marek	P <b>128</b> Charter Comm	L <b>17</b> nunicatio	# 588	Proposed Response Re	esponse Status O		
omment Type E Goals and objectives are	Comment Status X e not needed				<i>Р</i> <b>133</b> ZTE TX	L <b>25</b>	# 536
uggestedRemedy Strike 144.1.1					omment Status X 43.2.1.4 in D1.2_diff) st	hould be updated	to clarify the
	Response Status <b>O</b>			relationship between GLID a			
roposed Response	Response Status 0						
Proposed Response	Response Status 0			SuggestedRemedy See Supplement file wey_30	:a_1_0918		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/144Page 30 of 32COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC144.2.3.48/28/2018 6:40:14 AMSORT ORDER: Clause, Subclause, page, line

ical Specifications and Management Parameters for 25Gb/s and 50Gb/s Passive Optical Networks 3rd Tail

	Comment Status X		
	made to relate grant alloca	tion to maximize	the peak rate,
emedy w text as sho	wn in Supplement file wey_;	3ca_2_0918	
sponse	Response Status O		
SC 144.4.4.	1 <i>P</i> 168 Huawei	L <b>3</b>	# 514
pe T	Comment Status X		
shall start at (	clear: "When multiple chann Grant Start Time and shall h s together with the associate	ave the length as	s necessary to transmit
emedy			
e and shall h	els are assigned, a transmis ave the length as necessary	to transmit all al	
together with the associated optical and FEC overhead." to read: "When the bitmap indicates multiple channels are assigned, the transmission start time and duration are the same for all indicated channels as dictated by Grant Start Time and the sum of the EnvLength fields."			
sponse	Response Status <b>O</b>		
SC 144.4.4.	4 P172	L <b>31</b>	# 515
ne	Huawei		
be TR	Comment Status X		
Is this Requirement within a requirement needed? "The REGISTER MPCPDU is an instantiation of the Generic MPCPDU and shall be as shown in Figure 144–34 with details defined as follows: a) DA. The destination address used shall be an individual MAC address.			
	address used shall be an in	ndividual MAC ac	ldress.
emedy			
Change: "a) DA. The destination address used shall be an individual MAC address." to read: "a) DA. The destination address used is an individual MAC address."			
sponse	Response Status O		
. Т . Т	. The destinatio	The destination address used shall be an . The destination address used is an individ	The destination address used shall be an individual MAC at The destination address used is an individual MAC address

TIFL. INtechnical required Enteditional required Grogene	rai requireu Triechnical Ereditorial Grgeneral	0/ 144	Fage ST 01 52
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 144.4.4	8/28/2018 6:40:14 AM
SORT ORDER: Clause, Subclause, page, line			

C/ <b>144</b> SC <b>Fig 144-3</b> Wey, Jun Shan	s, <b>144-4</b> <i>P</i> <b>131</b> ZTE TX	L	# 533
Comment Type ER Figure 144-4 comes be	Comment Status X fore Fig. 144-3		
SuggestedRemedy Reverse the figure num	ibers		
Proposed Response	Response Status 0		

C/ 144 SC Fig 144-3, 144-4 Page 32 of 32 8/28/2018 6:40:14 AM