C/ 1 Haiduczeni	SC 1.4	P <b>20</b> Charter Com	L17	# 550	C/ 1 Remein [	SC 1.4.2	44a	P <b>21</b> Huawei	L11	# 417
			municalio	hucket	Comment		Comm	nt Status A		
Clarify	editorial instruction	on		DUCKEI	This c	definition miss	ses the fact tha	t an envelope is c	hannel specific.	
Suggestedi Change	Remedy e "Change definit	ion 1.4.278" to read "Chanc	ge definition 1.4.2	278 as shown below"	Suggeste Chan	<i>dRemedy</i> ge from:			·	
Proposed F PROP(	Response DSED ACCEPT.	Response Status W			"In Mi encap specit "In Mi	ulti-Channel F osulates data fic MAC insta	Reconciliation S belonging to a nce." to:	Sublayer (MCRS, s specific LLID, i.e.	see Clause 143), , the data or idles	an envelope sourced from a
C/ <b>1</b> Wey, Jun S	SC <b>1.4.129a</b> Shan	Р <b>21</b> ZTE TX	L <b>7</b>	# 520	encap chanr speci	nel, i.e., the data fic MCRS cha	belonging to a ata or idles sou	specific LLID beir irced from a speci	ing transmitted on fic MAC instance	a specific MCRS and sent over a
Comment 7 From the example numbe	<i>Type</i> <b>T</b> his definition, it is les of N=4 is imp r of channels.	Comment Status R clear that N is either 1 or 2 lied. The document should	. However, in va be made consist	rious places in the draft, ent regarding the	Response ACCE	ept.	Respons	se Status C		
Suggested	Remedy				C/ 1	SC 1.4.2	44b	P21 Charter Com	L16	# 552
Add the "Values someti	e follwing clarifica s of N equal to 1 mes shown as ex	ation in this definition, or els and 2 are normative in this camples for illustration purpo	ewhere as appro standard. Other ose only."	priate: values of N are	Comment There	<i>Type</i> E are only two	Comme added definitio	ent Status <b>D</b>	irt with a complete	bucket e sentence.
Response		Response Status C			Suggeste	dRemedy				
REJEC Comm	CT. ent type changed	I from E to T			Chan 143, a (inclu	ge "a transmi an envelope a ding GLD)"	ssion window a allocation repres	llocated to a singl sents a transmiss	le LLID (including ion window alloca	GLID)" to "In Clause ated to a single LLID
Nx25G change	-EPON is just a des needed.	collective name, nothing mo	re, implying mult	iple 25G lanes. No	Proposed PROF	Response POSED ACCI	Respons EPT.	se Status W		
					C/ <b>1</b> Hajduczer	SC <b>1.4.3</b> nia, Marek	13	P <b>20</b> Charter Com	L <b>31</b> municatio	# 551
					<i>Comment</i> Clarifi	<i>Type</i> <b>T</b> cation on what	<i>Comme</i> at "it" means in	ent Status <b>D</b> the context		bucket
					Suggeste Chan	<i>dRemedy</i> ge "it is also a	a collective tern	n" to "an LLI is als	so a collective ter	m"
					Proposed PROF	Response	Respon EPT IN PRINCI	se Status W PLE.		
					Chan	ge marked in	">><<"			
					Chan	ge "it is also a	a collective tern	n" to "an LLI>>D<	< is also a collec	tive term"
TYPE: TR/	echnical require	d ER/editorial required GR	/general required	T/technical F/editorial G/c	peneral			C/ 1		Page 1 of 37

TTTE. Trateenniea requirea Eracatoria requirea Oragener								
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 1.4.313	9/12/2018 6:51:27 PM					
SORT ORDER: Clause, Subclause, page, line								

CI 1 SC 1 / 3332	D21	1.26	# 552	CI 56	SC E	6 1	P25	/ 12	# 510
Hajduczenia, Marek	Charter Comm	unicatio	# 555	Powell, B		0.1	Nokia	213	# 518
Comment Type TR MPRS is no more - ne	Comment Status A ed to align the terminology		MCRS	Comment The c	<i>Type</i> current Fig	TR jure refe	Comment Status A erence for Nx25G EPON is Fig	gure 56-5 (end -	<i>Figure 56-5a</i> of first paragraph of
SuggestedRemedy	S" to "Multi-Channel RS (MCR	S)"		Claus the E	e 56.1 ar PoC archi	nd figure itecture.	e labeled 56-5a on the next pa	age). However,	Figure 56-5 is used for
		0)		Suggeste	dRemedy	,			
ACCEPT.	Response Status C			Chan next p	ge the figu bage to Fig	ure refe gure nu	rence in this paragraph and th mber 56-6.	e current Nx25	G EPON figure on the
C/ 1 SC 1.4.333a Haiduczenia, Marek	P <b>21</b> Charter Comm	L <b>26</b> Junicatio	# 554	OR, i Nx25	use of Fi G EPON f	ig. 56-5a figure (c	a is intentional for Nx25G EP0 surrently Fig. 56-5 in CL 56.1)	DN, at least cha to also referend	ange the reference to the ce Fig. 56-5a.
Comment Type E There are only two add	Comment Status <b>D</b> led definitions that do not start	with a comple	bucke te sentence.	t Response ACCI	, EPT IN PF	RINCIPL	Response Status <b>C</b> E.		
SuggestedRemedy				See o	;omment #	#521			
Change "one of a num represents one of a nu Strike "(see Clause 14	ber of defined paths" to "In Cla mber of defined paths" 3)" at the end of the definition	ause 143, an M	CRS channel	<i>Cl</i> <b>56</b> Wey, Jun	SC 50 Shan	6.1	Р <b>25</b> ZTE TX	L13	# 521
Proposed Response PROPOSED ACCEPT	Response Status W			Comment "Fig	<i>Type</i> gure 56-5	ER for Nx2	Comment Status A 5G-EPON topologies." should	l be Figure 56-ና	Figure 56-5a 5a.
C/ 31A SC 31A Remein Duane	P <b>22</b> Huawei	L <b>8</b>	# 418	Suggeste "Fig	<i>dRemedy</i> gure 56-5ଣ	, a for Nx	25G-EPON topologies."		
Comment Type E In multiple places the t the WG will point out th	Comment Status <b>D</b> erm "modify" is used in editors hat the term "change" is prefer	s instructions. red per the WC	<i>bucke</i> No doubt someone in 6 Template.	t Response ACCI	, EPT.		Response Status C		
SuggestedRemedy Change all instances of	of "modify" to "change" in editir	ng instructions	now.						
Proposed Response PROPOSED ACCEPT	Response Status W								

C/ 56 SC 56.1

C/ 56 SC 56.1.2.1	P <b>27</b>	L <b>6</b>	# 519	C/ 56	SC 56.1.3	P <b>28</b>	L1	# 419
Powell, Bill	Nokia			Remein, E	Duane	Huawei		
Comment Type T	Comment Status R			Comment	Type E	Comment Status A		
This clause is called "N added Nx25G EPON to CL 144, which still defi	Multipoint MAC Control Proto o this clause, which refers to ne MPMC as "Multipoint MA	NCOI (MPCP)." H MPMC in Fig. 5 C Control."	owever we have now a and several places in	Previo that o	ous entries in this rdering.	s table list OLT first and then O	NU. We shoul	d be consistent with
SuaaestedRemedv				Suggester	urkennedy II Tithon ONI Like	oon rate order as is (i.e. 25/10)	G D 25/10G	U 25/25C D
Possible solutions:				25/25	GU, 50/10D, §	50/10GU, )	JD, 25/10G0	J, 23/23GD,
(1) Change the title of	CL56.1.2.1 to "Multipoint MA	C Control (MPC	P & MPMC)	Response	)	Response Status C		
(2) Create a new subc	clause 56.1.2.1a (insert betw	een current 56.1	.2.1 & 56.1.2.2) to	ACCE	PT.			
describe Nx25G EPON paragraphs of 56.1.2.1	I's use of MPMC. Also move to the new clause.	e the Nx25G EP	ON text in both	C/ 56	SC 56.1.3	P <b>29</b>	L <b>26</b>	# 420
paragraphic of contight				Remein, I	Duane	Huawei		
After group discussion recommend the frist or	, if the TF doesn't have a str ption above.	ong opinion towa	ard the second option, I	Comment	Туре Т	Comment Status A		
Response	Response Status C			This p	para is incorrect	(we don't use 25GBASE_R sigr	naling at all).	
REJECT.				Suggeste	dRemedy			
Multipoint MAC Contro protocols that resides i another protocol, called about the MPCP, and I	I (MPMC) is a sublayer, that in that sublayer. In .3ca MPM d CCP. See bullet 3 in comm MPCP exists in all EPONs. I	exists in all EPC IC, in addition to nent #549. The c t would be wronç	ONs. MPCP is one of the MPCP, we also have lause 56.1.2.1 just talks to bring MPMC here.	"Addit derive Nx250 these	ionally, EFM intr d from 25GBAS G-EPON, along v systems employ	oduces a family of Physical La E–R, but which include RS, PC with a mandatory FEC capabilit t the PMD defined in Clause 14 zes exclusively 25CBASE-P size	ver signaling sy S and PMA su y, as defined ir 1. The family c	/stems which are .blayers adapted for ℩ Clause 142. All of of P2MP Physical Layer downstream and
C/ 56 SC 56.1.3	P <b>27</b> Broadcom	L <b>36</b>	# 545	upstre "Addit	am directions, s	supporting the following series of and uses a family of P2MP Physics	of PMD combin	ations:" to
	Commont Status		DMD nomeo	from 2	25GBASE–R, ret	ferred to as 25GBASE-PQ, whi	ch include an F	RS (Clause 143), PCS
Per accepted PMD nar upstream PMD rate is	ming convention (see slide 1 only shown for the asymetric	7, kramer_3ca_4 c PMDs.	4a_0518.pdf), the	and P EPON and u	MA sublayers wind I. The family of Free potream direction of the suble of the sub	ith a mandatory FEC capability P2MP systems utilizes 25GBAS ns. All 25GBASE-PQ systems of	(Clause 142) a E-PQ signalin employ the PM	adapted for Nx25G- g for the downstream IDs defined in Clause
SuggestedRemedy				141 a	nd support the fo	ollowing series of PMD combination	ations:	
Replace all occurences PQ and 50GBASE-F	s of 25G/25GBASE-PQ… ar PQ	nd 50G/10GBAS	E-PQ with 25GBASE-	Response ACCE	P PT IN PRINCIP	Response Status <b>C</b> LE.		
Response	Response Status C			0				
ACCEPT IN PRINCIPL	E.			See c	omment #555			
See motion #4 from Se globally	eptember 2018 meeting for c	hanges to PMD	names. Apply fixes					

C/ 56 SC 56.1.3

· · ·	•					•		
C/ 56 SC 56.1.3	P <b>29</b>	L <b>27</b>	# 555	C/ 141	SC 141	P <b>34</b>	L1	# 556
Hajduczenia, Marek	Charter Comm	nunicatio		Hajducze	nia, Marek	Charter Co	ommunicatio	
Comment Type TR	Comment Status A			Commen	t Type E	Comment Status D		bucket
Avoid listing PMDs ove	er and over again in multiple lo	ocations in the s	tandard.	Do no	ot break EPON n	ame across lines		
SuggestedRemedy Change "The family of	P2MP Physical Layer signalir	ng systems utiliz	zes exclusively	Suggeste Inser	edRemedy t forced line brea	k before Nx25G-EPON		
25GBASE-R signaling for the downs PMD combinations:	tream and upstream direction	is, supporting th	ne following series of	Proposed PRO	l Response POSED ACCEP <sup>-</sup>	Response Status W		
a) <tbd, list="" of="" pmds="" t<br="">PMD tables get filled in &gt; "</tbd,>	to be filled in, once we know v	vhat combinatic	ns are supported when	<i>Cl</i> <b>141</b> Hajducze	SC 141.1 nia, Marek	P <b>34</b> Charter Co	L <b>8</b> ommunicatio	# 557
to read				Comment Aggre	<i>t Type</i> <b>TR</b> egate line rate - v	Comment Status A what is this new animal?		
"The family of P2MP P signaling for the downs combinations as define <i>Response</i> ACCEPT IN PRINCIPL Strike "The family of P? R signaling for the dow PMD combinations: a) are supported when PM Clause 141."	hysical Layer signaling syster tream and upstream direction of in Table 141-6." Make sure <i>Response Status</i> <b>C</b> .E. 2MP Physical Layer signaling nstream and upstream directi <tbd, be="" filler<br="" list="" of="" pmds="" to="">MD tables get filled in&gt;. All Nx</tbd,>	ns utilizes exclu as, supporting a the link is live systems utilize ons, supporting d in, once we k 25G-EPON PM	sively 25GBASE-R series of PMD s exclusively 25GBASE- the following series of now what combinations Ds are defined in	Suggeste There rate i Chan Chan collec Gb/s EPOI collec down align	edRemedy e are 4 instances s implied (since i age all instances ge "All Nx25G-E ctively referred to in the downstrea N PMDs operatin ctively referred to isstream direction terminology and	in the whole draft, all in in t is in bps and not Bd) and of "an aggregate line rate" PON PMDs operating in th as 50G-EPON PMDs whi m direction are referred to g in the downstream direc as 50G-EPON PMDs whi at the MAC rate of 25 Gb/ the text flow better	tro text in Clause 14 also implied aggre with "a MAC rate" the downstream direct le those operating a as 25G-EPON PM tion at the MAC rate le Nx25G-EPON PM s are referred to as	41. It is likely that MAC gate throughput. ction at 50 Gb/s are at a maximum rate of 25 Ds." to "All Nx25G- e of 50 Gb/s are MDs operating in the 25G-EPON PMDs." to
CI 56 SC 56 1 3	P29	/ 33	# 121	Response		Response Status C		
Remein, Duane	Huawei	233	<i>π</i> 421	ACCI	EPT IN PRINCIP	LE. of "an aggregate line rate"	with "a MAC data r	ate"
Comment Type E	Comment Status A			Onan		or an aggregate interate		
This was just stated in SuggestedRemedy Strike: "All Nx25G-EPC	the previous sentences. DN PMDs are defined in Claus	se 141."		Chan colleo Gb/s to	nge "All Nx25G-E ctively referred to in the downstrea	PON PMDs operating in th as 50G-EPON PMDs whi m direction are referred to	e downstream dired le those operating a as 25G-EPON PM	ction at 50 Gb/s are at a maximum rate of 25 Ds."
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E.			"All N colled down	Ix25G-EPON PM ctively referred to stream MAC dat	IDs supporting the downstron as 50G-EPON PMDs white a rate of 25 Gb/s are collect	ream MAC data rate le Nx25G-EPON PM ctively referred to as	e of 50 Gb/s are MDs supporting the s 25G-EPON PMDs."

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See comment #555.
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C/ 141 SC 141.1

C/ 141 SC 141.1.3	P <b>34</b>	L <b>26</b>	# 422	C/ 141	SC 141.1.4	P <b>3</b> 4	4 L36	# 423
Remein, Duane	Huawei			Remein, Dua	ne	Huawe	ei	
Comment Type T	Comment Status A			Comment Ty	pe T	Comment Status	Α	
We seem to have two and another at 141.2.5	sections on power budgets 14 5."PMD power classes" that be	41.1.3 "Power but oth say essentiall	dget classes", here y the same thing.	This clau Nomencl	se has no tex ature.	t. It also seems to be	misplaced and shou	ld be part of 141.2 PMD
SuggestedRemedy				SuggestedRe	emedy			
Strike 141.1.3				Move und	der section 14	41.2 as 141.2.2 (see E	d comment on pg 37	line 141.2 line 15) and
Response ACCEPT IN PRINCIPI	Response Status <b>C</b> LE.			add the fe The Nx25 141-5.	ollowing: 5G-EPON PH	IYs are supported by t	he Link Types specif	ied in Table 141-1 through
Strike 141 1 3 per com	mont			Response		Response Status	С	
In 141.2.5, use formati	ting similar to current 141.1.3,	i.e., have a bulle	eted list.	ACCEPT	IN PRINCIP	LE.		
C/ 141 SC 141.1.4	P <b>34</b> Huawei	L <b>36</b>	# 424	No chang	ges in the tab	le / subclause location	I.	
				Use the f	ollowing text	in 141.1.4: "Character	istics of Nx25G-EPO	N PHY Link Types are
We have a good mix of PHY link types".	f "PHY Link Types", "PHY Link sistency would be better.	nk types", "PHY I	ink types" and "PQ	summari Types ar PMD pair	zed in Table ? e results of a rs are specifie	141-1 through Table 14 specific pairing of an 0 ed in Table 141-7 and	41-5. The indicated c OLT PMD and an ON Table 141-8."	haracteristics of PHY Link IU PMD. The supported
SuggestedRemedy	anaiotantly			Make sur	e links are liv	/e.		
	JISISTEILIY.			C/ 141	SC 141.1.4	P <b>3</b> 4	4 L <b>37</b>	# 558
Response	Response Status C			Hajduczenia,	Marek	Charte	er Communicatio	
ACCEPT IN PRINCIPI	LE.			Comment Tv	pe T	Comment Status	Α	
Since "PHY Link Type	is really intended as a comp	ound designator	for a thing (a link,	Missing t	ext			
comprising two PHYs) capitalization accordin	, the Editor's preference is to alv.	go with "PHY Lin	k Type". Align	SuggestedRe	emedy			
Do not remove "PQ" ir	two instances. They are corr	ect as they are.		Add the f through 1	ollowing text able 141-5 s	into 141.1.4 (and mak how all the PHY link ty	e sure sure all links a pes supported by N	are live): "Table 141-1 <25G-EPON architecture."
				Response		Response Status	С	
				ACCEPT	IN PRINCIP	LE.		
				See com	ment #423			

C/ 141 SC 141.1.4

C/ 141	SC 141.2	P <b>37</b>	L15	# 425	C/ 141	SC 141.2.3		P <b>37</b>	L <b>36</b>	# 560
Remein, D	Duane	Huawei			Hajduczer	nia, Marek		Charter Com	municatio	
Comment This s	<i>Type</i> <b>E</b> section seems to	Comment Status A go from detailed information	to generalized in	formation. It seems	<i>Comment</i> Unclea	<i>Type</i> <b>T</b> ar what the purp	Comment S	S <i>tatus</i> <b>A</b> tifier is "previo	ously existing"	
better	to introduce the	topic of nomenclature first be	efore going into d	etails.	Suggester	'''' Remedv	·		, ,	
Suggestee	dRemedy				Strike	"previously exis	sting" - there are	many more p	previously existin	g technologies
Under Nx250 by rat coexis schen {note Move Move	r 141.2 add the fc G-EPON PMDs a e (both upstream stence technology ne, protocol, line the ref to 141.2.2 section 141.1.4 " section 141.2.6	ollowing text: and classified based on PHY and downstream), waveleng PMD names are determin code and optical power bud assumes that 141.1.6 is mo PHY Link Types" and Table 'PMD naming" to 141.2.2 an	ink type (see 141 th, channel inse ed by PHY link ty get as summariz wed to 141.2.2} s 141-1 thru 141- d renumber the rt	.2.1) which is specified tion loss and rpe, direction, signaling ed in 141.2.2. 5 to 141.2.1. emaining sections.	Response ACCE Chang Nx250 previo	PT IN PRINCIP ge G-EPON PMDs ( usly existing PC	Response S PLE. defined in this c DN technologies	ause support	t WDM coexisten or GPON.	ce with one of two
Response	;	Response Status <b>C</b>		0						
ACCE	EPT IN PRINCIPL	.E.			to					
Insert	a new subclause	e 141.2.1 with the following to	ext (this avoids ha	anging paragraph	Nx250 GPON	G-EPON PMDs ( N.	defined in this c	ause support	t WDM coexisten	ce with 10G-EPON or
141.2 Nx250 transr Remo	.1 Introduction G-EPON PMDs a nission direction, ove 141.2.2 and it	re classified based on transm and power level.	nit and receive ra	te, coexistence type,	C/ 141 Hajduczer Comment Repet	SC 141.2.5 nia, Marek <i>Type</i> <b>TR</b>	Comment S	P <b>37</b> Charter Com Status <b>A</b>	L <b>48</b> amunicatio	# 561
Chan	~~ "1 41 2 4 DMD	direction classes" to "1.4.1.0	4 DMD transmiss	ion direction classes"	Suggester		1 141.1.5			
Cl 141 Hajduczer Comment Alway Suggested Strike Proposed PROF	SC 141.2.4 PMD SC 141.2.2 nia, Marek <i>Type</i> E rs avoid the use of <i>dRemedy</i> all instances of " <i>Response</i> POSED ACCEPT	P37 Charter Com Comment Status D of "always" unless describing 'always" in 141.2.2 Response Status W	L28 municatio unavoidable situ	# <u>559</u> <i>bucket</i>	Chang classe power two po class e.g., a with th of at le P2MP inserti at leas	ge "Nx25G-EPO s; a medium or budget classes; a budget classes; a budget classes; a budget class, d supports a P2M a PON with the s he split ratio east 1:32 and th media channel on loss of $\leq$ 29 of st 20 km."	N PMDs defined a high o "Nx25G-EPON medium or a hig lefined in 141.1. P media channe split ratio of at le the distance of at dB e.g., a PON	d in this claus NPMDs defin h 3." - make lin el insertion los ast 1:16 and least 10 km. with the split h	e are defined as ed in this clause k live. Strike "A r ss of ≤ 24 dB the distance of a A high PMD pow ratio of at least 1	one of two power are defined as one of nedium PMD power t least 20 km or a PON rer class supports a :32 and the distance of
					Response	ļ	Response S	Status C		
					ACCE	PT IN PRINCIP	LE.			
					See c	omment #422				

C/ 141 SC 141.2.5

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

C/ 141	SC 141.2.5	P <b>37</b>	L <b>52</b>	# 522	C/ 141	SC 141.2.6	P <b>38</b>	L11	# 562
Wey, Jun S	Shan	ZTE TX			Hajduczeni	ia, Marek	Charter Co	mmunicatio	
Comment	Type ER	Comment Status D		bucket	Comment	Type <b>TR</b>	Comment Status A		
Туро "	din"				"If r1 is	s equal to r2 (i.e.	, symmetric PMDs) r2 is o	mitted" is not true	anymore based on
Suggested	lRemedy				Currented	sion at the last n	leeling		
"in"					Suggested Strike t	the line			
Proposed	Response	Response Status W			Response		Response Status		
PROP	OSED ACCEPT.				ACCE	PT IN PRINCIPL	E.		
<i>Cl</i> <b>141</b> Remein, D	SC 141.2.5 uane	Р <b>37</b> Ниаwei	L <b>52</b>	# 426	See co	omment #563			
<i>Comment</i> typo "ir	<i>Type</i> <b>E</b> ndicate din" shou	Comment Status <b>D</b> Id be "indicated in"		bucket	<i>Cl</i> <b>141</b> Remein, D	SC <b>141.2.6</b> uane	P <b>38</b> Huawei	L <b>27</b>	# 427
Suggested per co	<i>IRemedy</i> mment				Comment Chang	<i>Type</i> <b>E</b> le "coexist" to "co	Comment Status A pexistence"		
Proposed	Response	Response Status W			Suggested	Remedy			
PROP	OSED ACCEPT.				per cor	mment			
Cl <b>141</b> Hajduczen	SC <b>141.2.6</b> ia, Marek	P <b>38</b> Charter Comr	L <b>6</b> nunicatio	# 563	ACCEI	PT IN PRINCIPL	E.		
Comment	Туре Е	Comment Status A			See co	omment #563			
Descri	ptions would be r	nore legible if placed into a s	tructured table		C/ 141	SC 141.2.7	P38	L <b>45</b>	# 564
Suggestea	lRemedy				Hajduczeni	ia, Marek	Charter Co	mmunicatio	
Replac	ce content of 141	.2.6 with hajduczenia_3ca_1	_0918.pdf		Comment	Туре Е	Comment Status A		
Response		Response Status C			There	is very little in the	e way of description in this	subclause: "This	subclause describes
ACCE	PT IN PRINCIPL	E.			now"				
Use ha - remo	ajduczenia_3ca_′ ve lines for w1 ar	1a_0918.pdf with the followin nd w2	g changes		Suggested Chang	re to "Table 141-	6 shows how"		
- remo - chan - remo	ve w1 and w2 fro ge "Values" to "A ve G. P. Q. BAS	m PMD name definition llowed values" E value entries from "Values	" column		Response ACCE	PT IN PRINCIPL	Response Status <b>C</b> E.		
	, -, -, -, -, -				Add the	e following text p	age 38, end of line 46:		
					"Table	141-6 shows the	e list of all supported PMD	types."	

C/ 141 SC 141.2.7

		1.0	"	<u></u>		200		"
C/ 141 SC 141.2.7 Remein, Duane	P <b>39</b> Huawei	L <b>2</b>	# 428	C/ 141 Remein, D	SC 141.2.7.1 Juane	P <b>39</b> Huawei	L <b>31</b>	# 429
Comment Type T	Comment Status A			Comment	Туре Т	Comment Status A		
There is no reference included in other tabl	e to Table 141–6. It is unclear es.	to me what this	table adds that is not	This d and sy	escription of table mmetric PMDs.	e 141-7 appears to be incorre	ect as the table i	includes asymmetric
SuggestedRemedy Either remove the tak	ble to add introductory text and	d reference.		Suggested Chang	lRemedy je:			
Response ACCEPT IN PRINCIP See comment #564	Response Status C			"Table symm Table "Table the me	e 141–7 illustrates etric-rate OLT PN 141–5." to 141–7 illustrates	s recommended pairings of s MDs to achieve the power bu s recommended pairings of C gets as shown in Table 141	ymmetric-rate C dgets as shown OLT PMDs with (	NU PMDs with in Table 141–1 through DNU PMDs to achieve
	Doo	1 42	# 420	Response		Response Status C		141-0.
Remein, Duane	F 39 Huawei	L <b>43</b>	# 430	ACCE	PT.			
Comment Type T	Comment Status A			C/ 141	SC 141.2.7.2	P <b>40</b>	L3	# 431
We've used the term	"power budget" quite a bit up	to this point. In t	his context the term is	Remein, D	vane	Huawei	-•	
SuggestedRemedy				Comment	Туре Т	Comment Status A		
Change: "The power budget is	determined" to			This d and sy	escription of table mmetric PMDs.	e 141-8 appears to be incorre	ect as the table i	includes asymmetric
"The end-to-end pow	er budget is determined"			Suggested	Remedy			
Response ACCEPT IN PRINCIP	Response Status <b>C</b> PLE.			Chang "Table asymr	e: 141–8 illustrates netric-rate OLT F	s recommended pairings of a MDs to achieve the power b	symmetric-rate udgets as show	ONU PMDs with n in Table 141–1
In 141.2.7, change "T	The power budget" to "The PH	IY link power bud	get"	throug "Table	h Table 141–5." 141–8 illustrates	to s recommended pairings of C bown in Table 141, 1 throug	DLT PMDs with (	ONU PMDs to achieve
C/ 141 SC 141.2.7	.1 <i>P</i> 39	L <b>31</b>	# 565	Response	wei buugets as s	Response Status C		
Hajduczenia, Marek	Charter Corr	municatio		ACCE		F		
Comment Type TR	Comment Status A			ACCE				
"symmetric-rate ONL symmetric and asym	J PMDs with symmetric-rate C metric PMDs shown	LT PMDs" - there	e are now both	Chang "Table	je: 141–8 illustrates	s recommended pairings of a	symmetric-rate	ONU PMDs with
SuggestedRemedy				asymr	netric-rate OLT F	MDs to achieve the power b	udgets as show	n in Table 141–1
Change to "ONU PM	Ds with OLT PMDs", same ch	ange on page 40	), line 3	"Table	141–8 illustrates	s recommended pairings of C	OLT PMDs with	ONU PMDs to achieve
Response	Response Status <b>C</b>			the hig	h power budgets	as shown in Table 141–1 th	rough Table 14	1–5."
ACCEPT IN PRINCI	PLE.							
See commont #420								
See comment #429								

C/ 141 SC 141.2.7.2

C/ 141 SC 141	.3 P40	L <b>30</b>	# 432	C/ 141 SC 141.3.4	I.1 P40	L <b>51</b>	# 434
Comment Type	Comment Status			Comment Type TP	Comment Status D		
We have a good Consistency wou	mix of "PQ-type PMD", "PQ type Id be better.	PMD", and "PQ o	compliant".	Delay constraints. In RS-PMA chain (see	n previous generations of EPC below). We now have separa	N delay was con te sections for RS	strained over the entire and PCS/PMA and
SuggestedRemedy For "PQ-type PM For "A PQ compl Response	D" and "PQ type PMD" use "Nx2 ant" use "An Nx25G-EPON comp <i>Response Status</i> <b>C</b>	5G-EPON PMD" liant"		need to distribute the the PCS/PMA. "76.1.2 Delay constr The MPCP relies on is implementation de variation through RS	e total allowed delay variation aints strict timing based on the dist ependent but an implementatic , PCS, and PMA sublayers of	with some going t ribution of timesta n shall maintain a no more than 1 ti	o RS and the rest to amps. The actual delay a combined delay me_quantum (see
ACCEPT IN PRI	NCIPLE.			77.2.2.1) so as not to	o interfere with the MPCP timi	ng."	_, 、
Replace "PQ-type	e PMD" with "PQ type PMD"			SuggestedRemedy			
C/ 141 SC 141	.3.1 P40	L <b>38</b>	# 433	In 141.3.1.1 and 142 to read: "The MPCP relies or	2.1.2 replace the {TBD} with the	e following and cl	hange section 143.4.3
Comment Type <b>T</b> The following statis not composed delimiter all of wh	Comment Status A tement is incorrect "representing 2 solely of 256B/257B blocks but in ich are not 256B/257B encoded.	256B/257B block: cludes Parity, IBI	s,". The stream of bits , SP, and EOB	delay is implementa as summarized in Ta for each direction as In 144.3.1.2 change	tion dependent but an implementation specified in {cl 45 ref]."	entation shall mai s shall declare th	ntain a delay variation e expected total delay
SuggestedRemedy Strike the statem	ent.			"The actual delay is maintain a delay var "The actual delay is	implementation dependent; ho iation of no more than <tbd e<br="">implementation dependent; ho</tbd>	wever, a comply Qs> through the wever, a comply	ng implementation shall MAC." to read: ng implementation shall
Response	Response Status C			maintain a delay var	iation in accordance with Table	e 144-x."	
ACCEPT.				Table 144-x Delay va Layer/Sub-layer MCRS Nx25G-EPON PCS/ Nx25G-EPON PMD MAC to PHY(1) PHY(2) Notes: 1) Total delay variati layers. 2) Total delay variati 3) Total delay variati 3) Total delay variati 3) Total delay variati delay variati 3) Total delay variati 3) Total delay variati delay variati 3) Total delay variati 3) Total delay variati 3) Total delay variati 3) Total delay variati delay variati 1) Total delay variati 3) Total delay variati 3) Total delay variati 1) Total	ariation allocation in Nx25G-EI Allowed Delay var 1 PMA 2 1 3 on for an Nx25G-EPON impler on for an Nx25G-EPON impler lay is declared as specified in ns which combine MCRS, PC nisms. need to determine how to dec	PON iation (EQT) mentation coverir mentation includii {CI 45 PMA/PME S, PMA and PME slare MCRS total	ng both MAC and PHY ng PCS, PMA and PMD. 9 Ref} and {Cl 45 PCS 9 may use either one or delay which may affect
				Liropood Lloopopoo	Deenenee Statue 7		

C/ 141 SC 141.3.1.1 Page 9 of 37 9/12/2018 6:51:27 PM



REJECT.

Nothing wrong with the original text. Replacing two correct sentences with a single more complext and wordy sentence is hardly an improvement.



The wording of this sentence can be improved.

### SuggestedRemedy

#### Change:

"The PMD continuously sends a stream of bits to the Clause 142 PMA corresponding to the signals received from the MDI, at the nominal signaling speed of 25.78125 GBd in the case of Nx25G–EPON OLT and ONU PMDs or to the Clause 142 PMA at the nominal signaling speed of 10.3125 GBd in the case of 25/10G–EPON and 50/10G-EPON OLT PMDs." to "The PMD continuously sends a stream of bits to theNx25G-EPON PMA (see 142.3) corresponding to the signals received from the MDI, at the nominal signaling speed of 25.78125 GBd in the case of Nx25G–EPON OLT and ONU PMDs or at the nominal signaling speed of 25.78125 GBd in the case of Nx25G–EPON OLT and ONU PMDs or at the nominal signaling speed of 25.78125 GBd in the case of 25/10G–EPON and 50/10G–EPON OLT PMDs."

### Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

7 141	SC 141.3.1.4	P <b>41</b>	L <b>28</b>	# 438
emein, Du	ane	Huawei		

Comment Type ER Comment Status A

This phrase "Clause 142 PCS" is unhelpful to most readers, who will not know what the "Clause 142 PCS" is.

### SuggestedRemedy

Change to" Nx25G-EPON PCS"

Response Response Status C

ACCEPT IN PRINCIPLE.

Change all instances of "Clause 142 PCS" to "PCS defined in 142.2"

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/ 141 SC 141.3.1.4 Page 10 of 37 9/12/2018 6:51:27 PM

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

C/ 141 SC 141.3.1.5 Remein, Duane	P <b>41</b> Huawei	L <b>41</b>	# 439	<i>Cl</i> <b>141</b> <i>SC</i> <b>141.3.2</b> Remein, Duane	Р <b>42</b> Ниаwei	L <b>4</b>	# 440
Comment Type E the term PMD_UNITDA i].indication(rx_bit) show	Comment Status D ATA[ uld not break the line.		bucket	Comment Type E "defined on per channe SuggestedRemedy	Comment Status D el basis" missing "a"		bucket
SuggestedRemedy	aking (Feens)			change to "defined on a	a per channel basis"		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 141 SC 141.3.1.5	P41	L <b>46</b>	# 566	C/ 141 SC 141.3.2 Hajduczenia, Marek	P <b>42</b> Charter Comr	L <b>7</b> municatio	# 568
Comment Type E Wrong format for NOTE	Comment Status D		bucket	Comment Type <b>T</b> Wrong reference: 141. SuggestedRemedy	<i>Comment Status</i> <b>A</b> 8 is labelling, safety, etc		
SuggesteaRemeay Apply proper style for N	NOTE			Change 141.8 to 141.7	(that is where all tests are de	efined) - two inst	tances
Proposed Response PROPOSED ACCEPT.	Response Status W			Response ACCEPT.	Response Status C		
C/ 141 SC 141.3.2 Haiduczenia Marek	P <b>42</b> Charter Com	L <b>1</b>	# 567	<i>Cl</i> <b>141</b> <i>SC</i> <b>141.3.2</b> Remein, Duane	P <b>42</b> Huawei	L <b>47</b>	# 441
Comment Type T Since now some of the "test points TP1[i] throu	Comment Status A test points are channels spe ugh TP4[i]" - that implies all c	ecific (as indicate	ed by [i]), we cannot say xed and they are not.	Comment Type TR This figure seems to be SuggestedRemedy Change title to "Nx25G	Comment Status A e lacking quite a bit to be call -EPON PMD test points"	led an "Nx25G-E	PON block diagram"
Change "TP1[i] through Change "TP5[i] through	n TP4[i]" to "TP1[i], TP2, TP3 n TP8[i]" to "TP5[i], TP6, TP7	8, and TP4[i]" glo 7, and TP8[i]" glo	bbally bbally	Response ACCEPT.	Response Status C		
Response ACCEPT.	Response Status C						

C/ 141 SC 141.3.2

C/ 141	SC 141.3.5.1	P43	L18	# 442	C/ 141 SC 141.3.5	.3 P43	L <b>38</b>	# 569
Remein, D	Juane	Huawei			Hajduczenia, Marek	Charter Corr	imunicatio	
Comment	Type E	Comment Status A			Comment Type T	Comment Status A		
Sectio	n 141.3.5.1 uses	the statement "The ONU PI	MD receiver is no	ot required" whereas	Table 141-9 contains	TBD references		
sectio	n 141.3.5.2 uses t	the wording "The PQ-type P	'MD receiver is n	ot required" These	SugaestedRemedv			
snouic	d be aligned				Change			
Suggester	Remedy				Average input optical	power <= Signal Detect Thre	shold (min) in Tal	ole {TBD} at the
Chang "The	ge 141.3.5.1 to:	NI DMD receiver is not requ	urad "		specified receiver wa	velength		
Chanc	010 10250-EFC	IN FIND receiver is not requ	iieu		to Average input optical	nower <= Signal Detect Thre	shold (min) in Tal	ble 141–14 or Table
"The	OLT Nx25G-EPO	N PMD receiver is not requi	ired"		141–15 at the specifi	ed receiver wavelength, as ap	plicable	
Response		Response Status C						
ACCE	PT IN PRINCIPLI	E.			Change Average input optical	nower >- Receive sensitivity	(max) in Table (T	BD) with a compliant
					signal input at the sp	ecified receiver wavelength		BD; with a compliant
Given	context where we	ere, adding Nx25G-EPON	everywhere does	s not clarify anything -	to			
weate		Clause			Average input optical	power >= Receive sensitivity	(max) in Table 14	11-14 or Table 141-1
Chanç	ge 141.3.5.2 to:						er wavelength, as	sapplicable
"The OLT PMD receiver is not required"				Response	Response Status C			
C/ 141	SC 141.3.5.3	P <b>43</b>	L <b>31</b>	# 443	ACCEPT.			
Remein, C	Juane	Huawei						
Comment	Туре Е	Comment Status R						
Seem Nx250	s like excessive s G-EPON Signal de	ub-division; ONU PMD signated the signate of the signature of the	al detect, OLT P	MD signal detect, and				
Suggested	dRemedy							
Strike sectio	the subclause title n content under 1	e "141.3.5.3 Nx25G-EPON 41.3.5 PMD signal detect fu	Signal detect fun Inction	ctions" and move the				
Response		Response Status C						
REJE	CT.							
Currer detect	nt subclause struct function definition	ture is correct - we have se ns. Proposed change would	ction for ONU, O	LT, and then Signal text.				

C/ 141 SC 141.3.5.3 Page 12 of 37 9/12/2018 6:51:27 PM

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C/ 141	SC 141.5.	P <b>44</b>	L <b>27</b>	# 444	C/ 141	SC	141.6	P <b>44</b>	L <b>46</b>	# 445
Remein, D	uane	Huawei			Remein, D	uane		Huawei		
Comment	Type <b>TR</b>	Comment Status D			Comment	Туре	Е	Comment Status D		bucket
There	is no definition of	what is considered "The ope	rating range" in th	is para and at line	As nea	ar as I o	can tell the	ere are no specifications in 1	41.2.	
49. Pr	esumable this me	eans reach and split but that i	s not mentioned a	nywhere. Does it	Suggested	Reme	dy			
operate	e at any waveleng	gth and rate "A transceiver wh	nich exceeds the c	operational range	Strike	", as s	pecified in	141.2"		
require	ment while meet	ing all other optical specificati	ons is considered	compliant."	Proposed	Respor	nse	Response Status W		
table s	o there was a mir	nimal connection to phrasing.	00-1 Instead of fea		PROP	OSED	ACCEPT.			
Suggested	Remedy				C/ 141	SC	141 6	P45	/ 30	# 516
Chang	e in both cases:				Harstead.	Ed	141.0	Nokia	200	# 510
"The o	perating ranges .	" to: "The maximum reach .			Comment	Type	т	Comment Status		
and ch	ange:				Table	141-12	footnote	(b): "This value is informativ	e only " is ambio	uous "This" could
" exc require	eeds the operation the ment"	onal range requirement" to	" exceeds the c	operational reach	mean	the 2 d	IB, or it could lues in the	uld be the same "this" in the body of the table. Same co	previous senten	ce which refers to 141-13, -16, and -17.
Proposed I	Response	Response Status W			Suggested	Reme	dy			
PROP	OSED REJECT.				Rewor	d, for e	example, "I	For reference, this implies th	at the minimum	average launch power
Operat	ing ranges mean	s power levels, wavelength ra	inges, etc. Curren	t text is correct as is.	per ch maxim	annel a num TD	at minimun )P is 2 dBr	n extinction ratio and m (informative)."		
AI for [	Duane and John t	o come up with the list of par	ametrers that may	/ be allowed to	Response			Response Status C		
exceed	1				ACCE	PT IN I	PRINCIPL	E.		
C/ 141	SC 141.5.1	P <b>44</b>	L <b>34</b>	# 570	Comm	nent typ	be was cha	anged to T.		
Hajduczeni	a, Marek	Charter Comm	unicatio		0			· · · · · · · · · · · ·		
Comment	Туре Е	Comment Status D		bucket	Change "I his value is informative only." to "I his minimum average launch power value is informative only.". The same change applies to Tables 141-13. Tables 141-16, and Tables					
Tables	are not displayed	d within the associated subcla	auses		141-17	7.				
Suggested	Remedy				C/ 141	SC	141.6.2	P <b>45</b>	L <b>52</b>	# 447
Force	Table 141–12 and	Table 141–13 to follow 141.	5.1 Transmitter of	otical specifications	Remein, D	uane	-	Huawei		
Force	Table 141–14 and changes needed	d Table 141–15 to follow 141. I in 141 6 1 Transmitter ontic:	5.2 Receiver options a	cal specifications	Comment	Tvpe	ER	Comment Status A		
optical	specifications				Unhel	oful link	c with unhe	elpful text "Clause 141 ONU	PMDs,"	
Proposed I	Response	Response Status W			Suggester	Reme	dv			
PROP	OSED ACCEPT.				Change to "Nx25G-EPON ONU PMDs."					
					Response	•		Response Status C		
					ACCE	PT IN I	PRINCIPL	E.		
					Chang	ge to "C	NU PMDs	5"		
						•				

TYPE: TR/technical required ER/editorial required GR/general	I required T/technical E/editorial G/general	C/ 141	Page 13 of 37
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 141.6.2	9/12/2018 6:51:27 PM
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 141.6.2	P <b>45</b> Huawei	L <b>52</b>	# 446	Cl 141 Remein Dua	SC 141.7.13	P <b>54</b> Huawei	L10	# 448
Comment Type E No PMDs are "(as spec	Comment Status D cified in 141.2)"		bucket	Comment Ty	pe E Ite sentences.	Comment Status D		bucket
SuggestedRemedy Strike the parenthetica Proposed Response PROPOSED ACCEPT	I. Response Status W			SuggestedRe Change ", value i " and has Proposed Re	emedy (4x in this secti s less than 128 s a value of les sponse	on) 3 ns" to s than 128 ns" <i>Response Status</i> <b>W</b>		
C/ 141 SC 141.6.2	Р <b>45</b> 7те ту	L <b>54</b>	# 524	PROPOS	SED ACCEPT.			
Comment Type TR	Comment Status A			C/ <b>141</b> Harstead, Ed	SC 141.7.13	P <b>54</b> Nokia	L11	# 517
SuggestedRemedy Change to Tables 141- Response	-18 and 141-19 Response Status <b>C</b>			Comment Ty Table 14 ns. Whio "less tha	be <b>T</b> 1–16 and 141- ch means 128 n 128 ns", whic	Comment Status A -17 specify Turn-on time (n ns is an acceptable value. ch means 128 ns is not an	nax) and Turn-off The text in 141.7 acceptable value.	time (max) to be 128 .13 says they must be
ACCEPT.	P/6	1 4 4	# 527	SuggestedRe Reword t captured	emedy ext to indicate in the table.	128 ns maximum. Or, dele	ete values here si	nce they are already
Wey, Jun Shan	ZTE TX	L <b></b>	# 321	Response		Response Status <b>C</b> ⊏		
Comment Type TR Table 141-10 in this an SuggestedRemedy Change to Tables 141-	the next paragraphs need t	to be replaced by	the correct reference.	Commer Change	t type changed	d from E to T "value is less than 128 ns	" to "value is less	than or equal to 128 ns"
Response ACCEPT.	Response Status C			C/ <b>141</b> Remein, Dua	SC 141.7.13 ne	P <b>54</b> Huawei	L <b>12</b>	# 449
				Comment Ty "Treceive normativ	be <b>TR</b> er_settling is de e parameter be	Comment Status <b>A</b> efined in 141.7.13.2 (inform e defined in and informative	ative), value is le subclause?	ss than" How can a
				SuggestedRe	emedy			
				Change ( (informat	o read "A tech ive) and has a	nique for measuring Trece value of less than	iver_settling is illu	strated in 141.7.13.2
				Response ACCEPT	IN PRINCIPL	Response Status <b>C</b> E.		
				Change (informat	o read "A metl ive) and has a	hod for measuring Treceive value of less than	er_settling is illust	rated in 141.7.13.2
								Dama 44 af 07

TTE. Trateoninea required Eracational required Oragener			
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 141.7.13	9/12/2018 6:51:27 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 141 SC 141.7.13	.1 P54	L <b>26</b>	# 571	C/ 141 SC Table 141-13 P46 L24 # 525						
Comment Type E Stray T in "as defined	Comment Status D in TT able 141–16"	municatio	bucket	Comment Type TR Comment Status A The unit of extinction ratio should be "dB"						
SuggestedRemedy Remove the green "T" Proposed Response PROPOSED ACCEPT	Response Status W			SuggestedRemedy "for extinction ratio >= 9 dB for extinction ratio < 9 dB" Response Response Status C ACCEPT.						
C/ 141 SC 141.7.13 Hajduczenia, Marek	.2 P54 Charter Com	L <b>36</b> municatio	# 572	C/ 141 SC Tables 141-12, 141-13, P45 L # 526						
Comment Type       E       Comment Status       D       bucket         "The test setup for measuring Ton and Toff is described in Figure 141–4." -figure does not describe really anything.				Comment Type       TR       Comment Status       A         The upperbound TDP values in footnote (a) in Tables 141-12, 141-13, 141-16, and 141-17 are inconsistent. In Table 141-13, the footnote states TDP< 0 dB, while in the other tables, it's TDP< 0.5 dB.						
C/ 141 SC Table 14 Wey, Jun Shan	11-12 P45 ZTE TX	P <b>45</b> L <b>23</b> # <u>523</u>		ACCEPT IN PRINCIPLE.						
Comment Type TR The unit of extinction r SuggestedRemedy "for extinction ratio >=	Comment Status A ratio should be "dB" 9 dB			Cl     142     SC     142.2.2     P65     L18     # 450       Remein, Duane     Huawei       Comment Type     T     Comment Status     A						
for extinction ratio < 9 Response ACCEPT.	dB" Response Status C			Proposed resolution to Editor's Note SuggestedRemedy See remein_3ca_1_0918.pdf Response Response Status C						
				ACCEPT IN PRINCIPLE. See remein_3ca_1a_0918.pdf for all tracked changes.						

C/ 142 SC 142.2.2

									" [= -= ]	
C/ 142 Remein. [	SC 142.2.2 Duane	P65 Huawei	L18	# 451	C/ 142 Kramer, G	SC 142.2.2. Glen	1.2 P65 Broadcom	L <b>5</b> 1	# 547	
Comment		Comment Status A			Comment	Type T	Comment Status A			
Figure	e and text on trans	smit bit ordering missing.			In tabl	le 142-1, the val	ue for /IBI/ is the same as the	value for /RA/.		
Suaaeste	dRemedv	0 0			Suggester	dRemedv				
Add t As sh consc 66-bit	he following text a own in {Figure 14 olidates these into	t the end of the section (142 2-5} the PCS transmitter firs a single 64-bit vector which mulated, scrambled, and tra	.2 in remein_3ca t inputs two trans is encoded into a nscoded into a 2	_1_0918): fers from the xMII and a 64B/66B vector. Four 57-bit vector which is	1) Cha definit 2) Inse	ange xMII contro tion in 142.2.2.5 ert hyphen after	l code and Nx25GBASE-PQ c 1) "Inter" in Inter Envelope Idle a	ontrol code for /	IBI/ to 0x0A (to match lle.	
transf	erred to the INPU	T_FIFO and also copied to t	he FEC encoder	Data is transferred to	Response	; -от	Response Status C			
the TX_FIFO, along with framing information (see {142.2.5.4.2}) by the PCS Framer process. The PCS Transmit process transfers all information bits to the PMA. The Nx25G-EPON PCS shall transmit bits in the order shown in {Figure 142-5}.						ACCEP1. Addressed in comment #450				
Response	9	Response Status C			C/ 142	SC 142.2.2.	1.2 P65	L <b>54</b>	# 453	
ACCE	EPT IN PRINCIPL	E.			Remein, D	Duane	Huawei			
See comment #450 for reference				Comment Type TR Comment Status A CC /IBI/ should not be the same as /RA/						
Add t	he following text a	t the end of the section 142.	2:		SuggestedRemedy					
As sh	own in Figure 142	2-5, the PCS transmitter first	inputs two transf	ers from the xMII and	Change xMII and Nx25GBASE-PQ IBI control codes to 0x0A					
Four	66-bit vectors are	accumulated, scrambled, ar	id transcoded int	o a 257-bit vector	Response	9	Response Status C			
which	is transferred to t	the INPUT_FIFO and also co	pied to the FEC	encoder. Data is	ACCE	EPT.				
Fram	er process. The P	CS Transmit process transfe	ers 257-bit blocks	s containing framing,	Addressed in comment #450					
Figure	e 142-5.				C/ 142	SC 142.2.2.	2 <i>P</i> 67	L <b>3</b>	# 454	
C/ 142	SC 142.2.2.1	P <b>65</b>	L <b>26</b>	# 452	Commont				hustet	
Remein, [	Duane	Huawei			Comment	<i>Type</i> <b>E</b>	Comment Status D	nloto SPD io on	DUCKEL	
Comment Type E Comment Status A					Typo "input" should be capitalized in "Once the complete SBD is appended to the TX_FIFO the input process begins transferring"					
We a one.	re very inconsiste	nt in capitalizing process wh	en referring to a	SD. We should pick	Suggested	dRemedy				
SuggestedRemedy						omment	_			
use lower case in all instances (that way the editor does not have to pick and choose in which of the >150 cases to use which case).					Proposed PROF	Response POSED ACCEP	Response Status <b>W</b> Г.			
Response	9	Response Status <b>C</b>								

ACCEPT IN PRINCIPLE.

Make sure all "process" instances capitalized ("Process").

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

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C/ 142 SC 142.	2.2.2	Р <b>67</b> Низжеі	L <b>53</b>	# 455	C/ 142	SC <b>142.2.2.4</b> .	5 P <b>74</b> Broadcom	L <b>8</b>	# 594
Comment Type T If the number of S allowed to transmi setting a default.	Comment S P zones and their b t and this is determ At most this should	Status <b>D</b> it pattern mus ined by the OI be optional.	t be announced b .T design, I don't	pefore an ONU is see the values in	Comment Need Suggester Delete	<i>Type</i> <b>TR</b> to remove potentia <i>dRemedy</i> e "encoding and"	Comment Status A al confusion of FEC enco	ding versus interle	<i>post-deadline</i> aver decoding
Make the SP1 and	I SP2 default patter	ns optional.			Response	•	Response Status <b>C</b>		
Proposed Response PROPOSED REJ	Response S	Status W			ACCE Delete each	PT IN PRINCIPLE "The control bit o 257-bit block is no	E. of t included in encoding an	d interleaving." on	page 74, line 1.
Al for Glep to look	ion.	n (announced)	by derauit, i.e., i	n the lack of vendor-	C/ <b>142</b> Wey, Jun	SC <b>142.2.2.4</b> . Shan	5 P <b>75</b> ZTE TX	L <b>34</b>	# 529
Cl 142 SC 142 Laubach, Mark Comment Type TR Comment #131 or "2) Change the bo Interleaver" to "Infr	Comment S D1.0 had a portion t cext "Information Bit	P70 Broadcom Status A n of it not imple Bit	L11	# 596 post-deadline	Comment There Suggestee Chang Response ACCE	<i>Type</i> <b>TR</b> are 128 switches <i>dRemedy</i> ge the current text PT.	Comment Status A at each stage, so the value of "i - 0,, 7" to "i=0,, Response Status C	ue of i should be fi 127"	rom 0 to 127.
De-interleaver" SuggestedRemedy	e accordingly				<i>Cl</i> <b>142</b> Remein, I	SC <b>142.2.2.5</b> . Duane	1 <i>P</i> <b>79</b> Huawei	L <b>45</b>	# 456
Response ACCEPT.	Response S	Status C			Comment typo "	<i>Type</i> <b>E</b> ofburst"	Comment Status D		bucket
Cl 142 SC 142. Laubach, Mark	2.2.4.2	P <b>73</b> Broadcom	L <b>20</b>	# <u>595</u>	Suggestee use "c Proposed	dRemedy of burst" Response	Response Status W		
Need to add text to	clarifv shortening	of upstream b	ursts relative to tr	ransmitted user bits.	PROF	POSED ACCEPT.			
SuggestedRemedy Add new paragrap "Note - when the la at the end of the T Figure 142-6)."	h/note: ast codeword of an ransmitter User Bit	upstream burs s effectively ex	st is shortened, th panding the num	ne shortening bits are aber of Zero Bits (see					
Response ACCEPT.	Response S	Status <b>C</b>							

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

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									-	
C/ 142	SC 142.2.2.5.	P <b>80</b>	L <b>22</b>	# 457	C/ 142	SC 142.2.2.5	5.2	P <b>81</b>	L <b>12</b>	# 460
Remein, D	Juane	Huawei			Remein, D	Juane		Huawei		
Comment Definit	<i>Type</i> <b>T</b> tions for PAR_PLA	Comment Status A			<i>Comment</i> Const	<i>Type</i> <b>E</b> ant name should	<i>Commen</i> not cross a l	<i>t Status</i> <b>D</b> ine		bucket
Suggested Chang	<i>dRemedy</i> ge Value: to "0x 0-	09-09-09-09-09-09-09"			Suggested Make	<i>dRemedy</i> "FEC_DELAY" n	on-breaking	{Esc n s}		
Response ACCE Chang	PT IN PRINCIPLE	Response Status <b>C</b> 			Proposed PROF	Response POSED ACCEPT	Response	Status W		
C/ 142	SC 142.2.2.5.	2 <i>P</i> 80	L <b>37</b>	# 458	<i>Cl</i> <b>142</b> Remein, D	SC <b>142.2.2.5</b> Duane	5.2	P <b>81</b> Huawei	L <b>28</b>	# 461
Remein, D	Duane	Huawei			Comment	Type TR	Commen	t Status A		
Comment This d MCRS	<i>Type</i> <b>T</b> lefinition of CLK_II S.	Comment Status A N puts the PCS out of phase	by 180 degrees	(1/2 EQ) with the	Defini blocks in the	tion of SP[]. What s"? It appears draft.	at is meant by that the define	y "Each elemen nition agreed to	t consists of MSI in Pittsburgh Mc	B 0 and the 257-bit tion #8 did not get into
Suggestee	dRemedy				Suggestee	dRemedy				
Chang In 143 "each In 143	ge "each falling ed 3.3.3.4 pg 110 line rising edge" 3.3.3.4 pg 110 line	ge" to "each rising edge" 6 and 143.3.4.3 pg 116 line 24 change "positive and ne	e 24 change "eac	h positive edge" to and falling"	Use th The S by the by the	ne agreed definiti P array is set to most recent set MPCP. The mst	on provided i the provisione tings of SP1, b of each cell	n remein_3ca_3 ed value of the s SP2, SP3, and is set to zero.	3_0518.pdf: synchronization p their correspond	battern as determined ling repeat parameters
Response		Response Status C			Response		Response	Status C		
ACCE	PT.				ACCE	PT IN PRINCIPL	_E.	-		
<i>Cl</i> <b>142</b> Remein, D	SC <b>142.2.2.5</b> .2 Duane	2 <b>P80</b> Huawei	L <b>54</b>	# 459	Use th	ne following defin	ition			
Comment Type       T       Comment Status       A         No such defined term as "SP_COUNT"; "This FIFO holds at most SP_COUNT elements."			P_COUNT elements."	The SP array is set to the provisioned value of the synchronization pattern as determined by the most recent settings of SP1, SP2, SP3, and their corresponding length parameters by the MPCP. The msb of each cell is set to zero.					Jattern as determined ling length parameters	
The a	ssertion is incorre	ct also.			C/ 142	SC 142.2.2.5	5.2	P <b>82</b>	L <b>7</b>	# 462
Suggested Chand	dRemedy be to read: "This F	IFO holds either SP LENG	TH or FEC PAR	TY SIZE elements.	Remein, D	Juane		Huawei		
whichever is greater.				,	Comment	Туре Т	Commen	t Status A		
Response		Response Status C			No su	ch fifo as OUTPl	JT_FIFO (yet	.)		
ACCE	PT.				Suggested Chang	dRemedy ge "OUTPUT_FIF	FO" to "TX_FI	IFO"		
					Response ACCE	PT.	Response	Status C		

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

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C/ 142 SC 142.2.2.5.3 P83 L6 # 463	C/ 142 SC 142.2.2.5.3 P83 L11 # 464				
Comment Type <b>T</b> Comment Status <b>A</b> We are eliminating the Gearbox.	Comment Type E Comment Status D Stray characters "a[4] "				
SuggestedRemedy Change: "PassToGearbox(v) This function passes a 257-bit vector v to the Gearbox for outputting to the PMA." to: PassToPMA(v)	SuggestedRemedy Strike Proposed Response Response Status Z REJECT				
This function passes a 257-bit vector v to the PMA.	This comment was WITHDRAWN by the commenter.				
In Fig 142-15 change ""PassToGearbox" to "PassToPMA" in 2 places. Strike para 142.2.2.6 Gearbox (pg 83)	C/ 142 SC 142.2.2.5.4 P84 L17 # 546				
Response Response Status C ACCEPT.	Comment Type         TR         Comment Status         A         NEXT_VECTOR           In Figure 142-13, variables got mixed up in state NEXT_VECTOR.         NEXT_VECTOR.         NEXT_VECTOR				
CI         142         SC         142.2.2.5.3         P83         L9         # 544           Kramer, Glen         Broadcom	SuggestedRemedy Restore the text in NEXT_VECTOR to its original form on slide 6 in				
Comment Type TR Comment Status A Transcode() function definition is wrong. It does not do scrambling (see 91.5.2.5).	Response Response Status C				
<ul> <li>SuggestedRemedy <ol> <li>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. 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></li></ul>	Cl       142       SC       142.2.3       P83       L31       #       465         Remein, Duane       Huawei       Huawei				
XBUFFER[3:0] <= Scramble( XBUFFER[3:0] ) 3) Add the definition for Scramble ( a[4] ) function: Scramble( a[4] ) This function scrambles the payload of a 66-bit block per 49.2.6. It takes an array of four 66-	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."         Response       Response Status C				
bit blocks a[4] as an argument and returns an array of four scrambled 66-bit blocks. <i>Response Response Status C</i> ACCEPT.	ACCEPT IN PRINCIPLE. "In the OLT, the PCS receive function may operate at the line rate of 25.78125 Gb/s or 10.3125 Gb/s."				

TYPE: TR/technical required ER/editorial required GR/genera	C/ <b>142</b>	Page 19 of 37	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 142.2.3	9/12/2018 6:51:27 PM
SORT ORDER: Clause, Subclause, page, line			

Cl	142 SC 142.2.3.2	P <b>83</b>	L <b>48</b>	# 466	Cl
Rer	nein, Duane	Huawei			Re
-	_	-			-

Comment Type TR Comment Status D

This text was adopted from 76.3.3.2 and needs to be aligned with the new synchronizer SD.

Note that the suggested description assumes that FecDecoded is a ternary variable with values of Invalid, True and False and when read assumes the value of Invalid. The variable must be set to either True or False by the FEC Decode process at the conclusion of each and every FEC CW decode.

#### SuggestedRemedy

#### Replace with:

"The ONU Synchronizer process begins by setting MatchCount to zero. The process then compares the upper 10-bits of the rx\_buffer to the FEC\_CW\_DELIM constant. If a match is found the process increments MatchCount in the VERIFY state otherwise it executes the Slip() function in the SLIP\_1 state to remove one bit from the rx\_buffer and reinitializes. In the VERIFY state if MatchCount is less than MATCH\_TARGET the rx\_buffer is slipped by one FEC\_CW\_SIZE and the process compares the upper 10 bits of the next FEC codeword to FEC\_CW\_DELIM. If MatchCount is greater than or equal to MATCH\_TARGET in the VERIFY state the process moves to the ALIGNED state where it sets FecFailCount to zero. If the FecDecoded goes False the process moves to the FEC\_FAILURE state where FecFailCount is incremented. If FecDecoded goes to True control returns to the ALIGNED state whereas if it goes to False again the FecFailCount in incremented again. If FecFailCount reaches FEC\_FAIL\_LIMIT the Synchronizer process is reinitialized.

The ONU Synchronizer shall implement the state diagram as depicted in Figure 142-14."

Proposed Response Response Status W PROPOSED ACCEPT.

Al for Duane to update it.

Cl 142 Remein, D	SC vuane	142.2.3.2	Р <b>84</b> Ниаwei	L16	# 467
Comment	Type	TR CTOR state	Comment Status <b>A</b>	ncorrect	NEXT_VECTOR
TxNex TxPre	tt <= Tx v <= Ne	Next extTxVector	·()		
Suggested Chang TxPre TxNe>	/Remea je actio v <= Tx tt <= Ne	dy on to: kNext extTxVector	()		
Response ACCE	PT.		Response Status C		
C/ 142	SC	142.2.3.2	P84	L <b>33</b>	# 468
Remein, D	uane		Huawei		
Comment I was back i My ap	<i>Type</i> n error n. ologies	TR when I sug to the Edite	Comment Status A gested removing the scran or.	nbler function. It	needs to be added
Suggested	Reme	dy			
After > TxInp	lndex « ut<256:	<= 0 add the 0> <= Scra	e following: amble( TxInput<256:0> )		
Descr	ptive te	ext is includ	ed in remein_3ca_1_0918.	pdf.	
Response			Response Status C		
ACCE	PT IN I	PRINCIPLE			
See c	ommen	nt #544 for c	changes to Figure 142-13.		

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Remein, Duane       Huawei       Remein, Duane       Huawei         Comment Type       TR       Comment Status A       There is no info conveyed to the reader by setting TxInput-257> to "1".         SuggestedRemedy       Change:       There is no info conveyed to the reader by setting TxInput-257> to "1".         Change:       There is no info conveyed to the reader by setting TxInput-257> to "1".       These paras are incorrect and do not describe the synchronizer accepted.         Change:       There is no info conveyed to the reader by setting TxInput-257> to "1".       These paras are incorrect and do not describe the synchronizer accepted.         TYPE binary       Value:       The to is no information to accept the information to accept the sector addition.       The information to accept the info	C/ 142 SC 142	.2.3.2	P <b>84</b>	L <b>33</b>	# 469	C/ 142	SC 142.2.3.2	P84	L <b>45</b>	# 471
Comment Type TR Comment Status A         There is no info conveyed to the reader by setting Txinput-257> to "1".         SuggestedRemedy         Change:         "Txinput-57> <= SCRAMBLED"	Remein, Duane		Huawei			Remein, D	Duane	Huawei		
There is no find conveyed to the reader by setting TxInput-257- to "1". SuggestedRemedy Change: "TxInput-57 <= 1" to: "TxInput-57 <= 1" to: "TxInput-57 <= 1" to: "TxInput-57 <= 1" to: "TxInput-57 <= 5CRAMBLED" Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 "TxInput-527 <= 5CRAMBLED" Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 "TxInput-527 <= 5CRAMBLED" Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 TxInput-257 <= 5CRAMBLED' Add to constant indicates that the contents of the 257-bit vector are scrambled. When the bit TxInput-257 <= TXOutput-257 /s is to 1, then bits TxInput-2560 /s in the same vector are scrambled data. CI 142 SC 142.2.3.2 P84 L35 # $\overline{470}$ Change to "FEC_Encode" (no 'r') Response Response Status C ACCEPT. CI 142 SC 142.2.3.1 P86 L43 # $\overline{473}$ Change to FEC_FAIL_LIMT and MATCH TARGET resp.	Comment Type TI	R Comme	ent Status A			Comment	Туре Т	Comment Status A		
SuggestedRemedy         Ohang:         Thinput-257 <= 1' 10:	There is no info c	conveyed to the r	reader by setting T	xInput<257> to "	1".	These	e paras are incorre	ct and do not describe the s	synchronizer acc	cepted.
Value: 1       When bit 257 of a TxInput or TxOutput vector is set to this value it indicates that vector         When bit 257 of a TxInput 257 of a TxInput or TxOutput vector is set to this value it indicates that vector       SuggestedRemedy         Change:       "TxInput/257> of \$CRAMBLED"       Response Response Status C         Add to constants in proper order:       Constants in proper order:       Comment Type       TR       Comment Status A         In the same vector carry scrambled data.       Numevia       SuggestedRemedy       SuggestedRemedy         C1 142       SC 142.2.3.2       P84       L35       # 470         C1 142       SC 142.2.3.2.1       P86       L43       # 473         Remein, Duane       Huawei       Comment Type       T comment Status A       No such constant as FecFailLinit or MatchTarget.         SuggestedRemedy       Change to: "FEC_Encoder"       SuggestedRemedy       Change to: FEC_FAIL_LIMIT and MATCH_COUNT resp.         Response       Response Status C       ACCEPT. <td>SuggestedRemedy Change: "TxInput&lt;57&gt; &lt;= "TxInput&lt;57&gt; &lt;= Add to constants SCRAMBLED TYPE binary</td> <td>: 1" to: : SCRAMBLED" in proper order:</td> <td></td> <td></td> <td></td> <td>"While block compl When or mo deass codev certain</td> <td>e in codeword lock and the parity bits lete, the FEC decc in codeword lock, re sync headers in serts codeword loc vord lock is deasse n false-lock cases</td> <td>, the synchronizer copies th of the codeword into an inp oder is triggered, and the inp the state diagram continue a codeword pair (62 blocks k. In addition, if the persist_ erted (this check ensures th are not persistent.)"</td> <td>the FEC-protected but buffer. When but buffer is freed is to check for sy s) are invalid, the dec_fail signal b at</td> <td>d bits from each data the codeword is d for the next codeword. ync header validity. If 16 en the state diagram becomes set, then</td>	SuggestedRemedy Change: "TxInput<57> <= "TxInput<57> <= Add to constants SCRAMBLED TYPE binary	: 1" to: : SCRAMBLED" in proper order:				"While block compl When or mo deass codev certain	e in codeword lock and the parity bits lete, the FEC decc in codeword lock, re sync headers in serts codeword loc vord lock is deasse n false-lock cases	, the synchronizer copies th of the codeword into an inp oder is triggered, and the inp the state diagram continue a codeword pair (62 blocks k. In addition, if the persist_ erted (this check ensures th are not persistent.)"	the FEC-protected but buffer. When but buffer is freed is to check for sy s) are invalid, the dec_fail signal b at	d bits from each data the codeword is d for the next codeword. ync header validity. If 16 en the state diagram becomes set, then
The scambled data.       Strike         Response       Response Status C         ACCEPT IN PRINCIPLE.       Change:         Change:       Thiput/257 <= 1° to:	Value: 1 When hit 257 of	a Tylpput or Ty	Output vector is se	at to this value it i	ndicates that vector	Suggestee	dRemedy			
Response       Response Status C         ACCEPT IN PRINCIPLE.         Change:         "TXInput:257> <= 1" to:	bits 256:0 are scr	rambled data.				Strike				
ACCEPT IN PRINCIPLE. Change: "TXInput-257> <= 1° to: "TXInput-257> <= SCRAMBLED" Add to constants in proper order: SCRAMBLED TYPE binary Value: 1 This constant indicates that the contents of the 257-bit vector are scrambled. When the bit TXInput-257> is set to 1, then bits TXInput-256:0> or TXOutput-256:0> in the same vector carry scrambled data. C/ 142 SC 142.2.3.2 P84 L35 # 470 C/ 142 SC 142.2.3.2 P84 L35 # 470 C/ 142 SC 142.2.3.2 P84 L35 # 470 C/ 142 SC 142.2.3.2 P86 L43 # 473 Remein, Duane Huawei Comment Type TR Comment Status A There is no function "FEC_Encode" (no "r") Response Response Status C ACCEPT. Response Status C ACCEPT. Response Status C ACCEPT. C/ 142 SC 142.2.3.2 P86 L43 # 473 Comment Type T Comment Status A No such constant as FecFailLimit or MatchTarget. SuggestedRemedy Change to: "FEC_Encode" (no "r") Response Response Status C ACCEPT. C/ 142 SC 142.2.3.2.1 P86 L43 # 473 Comment Type T Comment Status A No such constant as FecFailLimit or MatchTarget. SuggestedRemedy Change to: "FEC_FAIL_LIMIT and MATCH_COUNT resp. Response Status C ACCEPT IN PRINCIPLE. Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.	Response	Respon	se Status C			Response	9	Response Status <b>C</b>		
Change:       "TXInput<257 <= 1" to:	ACCEPT IN PRIM	NCIPLE.				ACCE	PT.			
"TxInput<257> <= SCRAMBLED"	Change: "TxInput<257> <	:= 1" to:				C/ 142	SC 142.2.3.2	P86	L <b>7</b>	# 472
Add to constants in proper order:       SCRAMBLED         SCRAMBLED       TYPE binary         Yalue: 1       This constant indicates that the contents of the 257-bit vector are scrambled. When the bit TxInput<257 or TxOutput<257 or TxOutput<257.0> statement should be an assignment not a comparison. <i>Cl</i> 142       SC 142.2.3.2 <i>P</i> 84       L35 <i>Remein, Duane</i> Huawei <i>Comment Type</i> TR <i>Comment Status</i> A         There is no function "FEC_Encoder"       Kesponse         SuggestedRemedy       Change to: "FEC_Encode" (no "r") <i>Response Response Status</i> ACCEPT.       Comment Status A         No such constant as FecFailLimit or MatchTarget.         SuggestedRemedy       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp. <i>Response Response Status</i> C         ACCEPT.       Comment Status A       No such constant as FecFailLimit or MatchTarget.         SuggestedRemedy       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.       Change to FEC_FAIL_LIMIT and MATCH TARGET resp.	"TxInput<257> <	= SCRAMBLED	)"							
Value: 1       This constant indicates that the contents of the 257-bit vector are scrambled. When the bit TxInput<257> is set to 1, then bits TxInput<256:0> or TxOutput<256:0> or TxOutput<256:0> in the same vector carry scrambled data.       SuggestedRemedy         Cl 142       SC 142.2.3.2       P84       L35       # 470         Comment Type       TR       Comment Status A       Cl 142       SC 142.2.3.2.1       P86       L43       # 473         Comment Type       TR       Comment Status A       Comment Type       T       Comment Status A         SuggestedRemedy       Change to: "FEC_Encode"       FEC_Encode" (no "r")       Response       Response Status C         Record CePT.       ACCEPT.       SuggestedRemedy       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         Response       Response Status C       ACCEPT IN PRINCIPLE.       SuggestedRemedy         ACCEPT.       Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	Add to constants SCRAMBLED	in proper order:				Comment In Fig comp	ure 142–15 state l arison.	NIT TxOutput<257:0> state	ment should be	an assignment not a
TxInput<257> or TxOutput<257> is set to 1, then bits TxInput<256:0> or TxOutput<256:0> in the same vector carry scrambled data.       Response Tx Comment Carry scrambled data.         C/ 142       SC 142.2.3.2       P84       L35       # 470         Remein, Duane       Huawei       C/ 142       SC 142.2.3.2.1       P86       L43       # 473         Comment Type       TR       Comment Status A       C/ 142       SC 142.2.3.2.1       P86       L43       # 473         SuggestedRemedy       Change to: "FEC_Encode" (no "r")       Comment Status C       A       No such constant as FecFailLimit or MatchTarget.         Response       Response Status C       ACCEPT.       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         Response       Response Status C       ACCEPT IN PRINCIPLE.       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.	Value: 1 This constant in	dicates that the	contents of the 25	7-bit vector are s	crambled. When the bit	Suggestee per co	dRemedy omment			
Cl 142       SC 142.2.3.2       P84       L35       # 470         Remein, Duane       Huawei       Cl 142       SC 142.2.3.2.1       P86       L43       # 473         Comment Type       TR       Comment Status A       Remein, Duane       Huawei       Cl 142       SC 142.2.3.2.1       P86       L43       # 473         Comment Type       TR       Comment Status A       No such constant as FecFailLimit or MatchTarget.       Comment Type       T       Comment Status A       No such constant as FecFailLimit or MatchTarget.         SuggestedRemedy       Change to: "FEC_Encode" (no "r")       Response       Response Status C       SuggestedRemedy       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         Response       Response Status C       ACCEPT.       Response Status C       ACCEPT IN PRINCIPLE.         Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.       Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.       Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	TxInput<257> or in the same vector	TxOutput<257> or carry scramble	is set to 1, then bi ed data.	ts TxInput<256:0	> or TxOutput<256:0>	Response	; =рт	Response Status C		
Remein, Duane       Huawei       Cl 142       SC 142.2.3.2.1       P86       L43       # 473         Comment Type       TR       Comment Status       A       Remein, Duane       Huawei         There is no function "FEC_Encoder"       Comment Type       T       Comment Status       A         SuggestedRemedy       Change to: "FEC_Encode" (no "r")       No such constant as FecFailLimit or MatchTarget.       SuggestedRemedy         Response       Response Status       C       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         ACCEPT.       Response Status       C         ACCEPT.       Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	C/ 142 SC 142	.2.3.2	P <b>84</b>	L <b>35</b>	# 470					
Comment Type       TR       Comment Status       A         There is no function "FEC_Encoder"       Comment Type       T       Comment Status       A         SuggestedRemedy       No such constant as FecFailLimit or MatchTarget.         Change to: "FEC_Encode" (no "r")       SuggestedRemedy       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         Response       Response Status       C       Response Status       C         ACCEPT.       Response Status       C       ACCEPT IN PRINCIPLE.         Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.       Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	Remein, Duane		Huawei			C/ 142	SC 142.2.3.2.	1 <i>P</i> 86	L <b>43</b>	# 473
There is no function "FEC_Encoder"       Comment Type T       Comment Status A         SuggestedRemedy       No such constant as FecFailLimit or MatchTarget.         Change to: "FEC_Encode" (no "r")       SuggestedRemedy         Response       Response Status C         ACCEPT.       Response Status C         ACCEPT.       Response Status C         ACCEPT.       Response Status C         ACCEPT.       Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         ACCEPT IN PRINCIPLE.       C         Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	Comment Type TI	R Comme	ent Status A							
SuggestedRemedy       No such constant as FeCFallLimit or Match Farget.         Change to: "FEC_Encode" (no "r")       SuggestedRemedy         Response       Response Status         ACCEPT.       Response Status         Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         ACCEPT.       Response Status         Change to FEC_FAIL_LIMIT and MATCH_COUNT resp.         ACCEPT.       Response Status         Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	There is no functi	ion "FEC_Encod	ler"			Comment	<i>Type</i> T	Comment Status A		
Change to: "FEC_Encode" (no "r")  Response Response Status C  ACCEPT.  SuggestedRemedy Change to FEC_FAIL_LIMIT and MATCH_COUNT resp. Response Response Response Status C  ACCEPT IN PRINCIPLE.  Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	SuggestedRemedy					INO SU		crailLiniit or Match rarget.		
Response     Response Status     C       ACCEPT.     Response     Response Status       ACCEPT.     Response     Response Status       C     ACCEPT IN PRINCIPLE.       Change to FEC_FAIL_LIMIT and MATCH_COUNT Tesp.	Change to: "FEC	_Encode" (no "r"	')			Suggester	dRemedy			
ACCEPT. Response Response Status C ACCEPT IN PRINCIPLE. Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	Response	Respon	se Status C			- Cnang	ge to FEC_FAIL_L		resp.	
Change to FEC_FAIL_LIMIT and MATCH_TARGET resp.	ACCEPT.					Response ACCE	9 EPT IN PRINCIPLE	Response Status <b>C</b>		
						Chang	ge to FEC_FAIL_L	IMIT and MATCH_TARGET	T resp.	

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

C/         142         SC         142.2.3.2.1         P 86         L 50           Remein, Duane         Huawei	# 474	<i>Cl</i> <b>142</b> <i>SC</i> <b>142.2.3</b> . Remein, Duane	<b>2.2 P87</b> Huawei	L8	# 476
Comment Type <b>T</b> Comment Status <b>A</b> Typo "lock start" should be "lock state"		Comment Type TR No such variable Fect	Comment Status D DecodeFail		
SuggestedRemedy per comment Response Response Status C ACCEPT.		SuggestedRemedy Replace with: FecDecoded TYPE: Ternary The FecDecoded va When read it assume	riable can assume one of three	e values; "Invali	d", True, or False.
C/ 142 SC 142.2.3.2.1 P87 L1	# 475	at the completion of e	ach codeword decoding opera	ation.	
Comment Type T Comment Status A		Proposed Response REJECT.	Response Status Z		
Where is a PD used?		This comment was W	ITHDRAWN by the commente	er.	
SuggestedRemedy Strike definition.		C/ 142 SC 142.2.3.	<b>2.2 <i>P</i>87</b>	L12	# 477
Response Response Status C ACCEPT IN PRINCIPLE.		Comment Type <b>T</b> No such variable Fec	Comment Status D DecodeSucceed		
Change PD to FEC_CW_DELIM and use the following definition		SuggestedRemedy Strike			
in 142.2.2.5.1, change definition of FEC_CW_DELIM to read as follo	WS	Proposed Response REJECT.	Response Status Z		
TYPE: 10-bit vector The burst delimiter bit pattern found at the end of each FEC Parity b VALUE: 0x3-CA	lock.	This comment was W	ITHDRAWN by the commente	er.	
		C/ 142 SC 142.2.3. Remein, Duane	2.2 <i>P</i> 87 Huawei	L <b>21</b>	# 478
		<i>Comment Type</i> <b>T</b> No such variable Mate	Comment Status A		
		SuggestedRemedy Strike			
		Response ACCEPT.	Response Status C		

C/ 142 SC 142.2.3.2.2

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

C/ 142 SC 142.2	2.3.2.2 P87	L <b>31</b>	# 479	C/ 142	SC 142.2.3.	2.4 /	<sup>5</sup> 88	L1	# 593
Remein, Duane	Huawei			Kramer, Glei	า	Bro	adcom		
Comment Type E typo "hold" should	Comment Status D be "holds"		bucket	Comment Ty The gen	<i>pe</i> <b>T</b> eric section of	Comment Stat	<i>is</i> <b>A</b> specificat	tion allows the nu	post-deadline umber of channels to
SuggestedRemedy per comment				make the variables	e MCRS state rCol and wC	diagram simpler. ol are defined (no e	MCRS is a xplict rese	only specified thi et to 0, only on re	is way because of how oll-over)
Proposed Response	Response Status W			SuggestedR	emedy				
PROPOSED ACCI	EPT.			1) Define	e an generic c	onstant NUM_CH t	o represer	nt the number of	supported MCRS
Cl 142 SC 142.2 Remein, Duane Comment Type TR No such function C	2.3.2.3 P87 Huawei Comment Status A	L36	# 480	NUM_CI NUM_CI TYPE Value The N based de	s H : integer : application s IUM_CH cons evice.	pecific (see 143.3.3 tant represents the	3.2) number c	of channels supp	orted by an MCRS-
SuggestedRemedy Strike				2) In Nx2 NUM_CI	25G-EPON ap	plication-specific s	ection, ad	d the following:	
Response ACCEPT.	Response Status C			Value	2 for devices	supporting only 25 supporting 50 Gb/s	Gb/s ope operatior	eration over a sin n over two chann	igle channel; iels.
CI 142 SC 142 3	P324 P88	/ 1	# 592	2) Make diagram	changes to M s as shown in	red in kramer_3ca	-13) and [ _5_0918.r	MCRS Output (F odf.	-ig 143-17) state
Kramer, Glen	Broadcom		11 002	Response		Response Statu	ıs C		
Comment Type T	Comment Status A		post-deadline	ACCEPT	IN PRINCIP	LE.			
In ONU synchroniz defined as a three- waiting for FEC de behavior.	er state diagram (Figure 142- valued logic: (true - successfu coding. This is an unnecessar	16), FecDecoded va I decoding; false - f y complicated solut	riable needs to be ailed decoding, Z - on to a simple	1) Define channels NUM_CI TYPF	e an generic c s H · unsigned int	onstant NUM_CH t	o represer	nt the number of	supported MCRS
SuggestedRemedy				Value	: application s	pecific (see 143.3.3	3.2)		
Revert to the origin booleans: FecDeco	al version of this state diagram odeSuccess and FecDecodeF	n (kramer_3ca_1_0 ailure.	318.pdf) and use two	The N based de	UM_CH cons evice.	tant represents the	number o	of channels supp	orted by an MCRS-
The changes to the kramer_3ca_4_09	e state diagram and the definit 18.pdf.	ions of these two va	ariables are provided in	2) In Nx2 NUM_CI	25G-EPON ap H	plication-specific s	ection, ad	d the following:	
Response ACCEPT.	Response Status C			Value	1 for devices 2 for devices	supporting only 25 supporting 50 Gb/s	Gb/s operatior	eration over a sin n over two chanr	ngle channel; nels.
				2) Make diagram	changes to M s as shown in	CRS Input (Fig 143 red in kramer_3ca	-13) and _5_0918.r	MCRS Output (F odf.	ig 143-17) state

C/ 142 SC 142.2.3.2.4 Page 23 of 37 9/12/2018 6:51:28 PM

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

C/ 142	SC 142.3.2	P90	L <b>4</b>	# 481	C/ 143	SC 143.1	P <b>93</b>	L10	# 482
Remein, Du					Remein, Du	uane –	Huawei		
Well th "switch Standa	<i>ype</i> <b>E</b> is could be emba the decoder in a rds should never	comment Status D irrassing: ppropriately" be inappropriate.		bucket	I think a P2MP	an important po applications.	comment Status A int to be made here is that th	ne MCRS is appli	icable to either P2P or
S <i>uggestedl</i> Change "switch	Remedy e to read: in the decoder a	s appropriate."			Change "Gener PHY in	e: ally, single-cha point-to-point l	nnel RS specifications enabl inks, or a multiple MACs to ir	ed a single MAC nterface to a sing	to interface to a single le PHY in P2MP links
Proposed F PROP(	Response DSED ACCEPT.	Response Status W			(e.g., E to inter "Gener	PON architectu face with multip ally, single-cha	ures). This concept is expand ole PHYs (see Figure 143–1) nnel RS specifications enabl	led in this clause " to: ed a single MAC	to allow multiple MACs
<i>Cl</i> <b>142</b> Wey, Jun S	SC Figure 142 han	2-2 P66 ZTE TX	L13	# 528	PHY in links (e multiple Figure	e.g., EPON arch e.g., EPON arch e MACs to inter 143–1) "	P2P) links, or a multiple MAG itectures). This concept is ex face with multiple PHYs in ei	Cs to interface to panded in this c ther P2P or P2N	a single PHY in P2MP lause to allow single or IP applications (see
Comment 7	ype TR	Comment Status A			Response	110 1).	Response Status <b>C</b>		
"MPRS	" should be "MCI	RS"			, ACCEF	PT IN PRINCIP	LE.		
Suggestedl	Remedy	1000			"Conor	ally single she	nnal BS annaifiantiana anabl		to intorface to a single
Replac	e "MPRS" with "N				PHY in	point-to-point l	inks, or a multiple MACs to in	nterface to a single	le PHY in P2MP links
ACCEF	РТ.	Response Status C			(e.g., E to inter	PON architectu face with multip	ures). This concept is expand ble PHYs (see Figure 143–1)	led in this clause "	to allow multiple MACs
					to:				
					"Gener PHY in links (e multiple Figure	ally, single-cha point-to-point ( .g., EPON arch MACs to inter 143–1)."	nnel RS specifications enabl P2P) links, or multiple MACs itectures). This concept is ex face with multiple PHYs in ei	ed a single MAC to interface to a cpanded in this c ther P2P or P2N	to interface to a single single PHY in P2MP lause to allow single or IP applications (see
					C/ 143	SC 143.1	P <b>93</b>	L <b>47</b>	# 573
					Hajduczeni	a, Marek	Charter Com	municatio	
					Comment 7	Туре Т	Comment Status A		
					There i PHYs a MCRS	s very little valu and associated and associated	e on aggregating multiple 10 PCS layers are very mature I multi-lane cpabilities	00M MIIs togethe at this time and u	r, given that these unlikely to benefit from
					Suggested	Remedy			
					Strike t	he editorial not	e in lines 46-47		
					Response		Response Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 143	Page 24 of 37
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 143.1	9/12/2018 6:51:28 PM
SORT ORDER: Clause, Subclause, page, line		

C/ 143	SC 143.2	P <b>94</b>	L1	# 537	C/ 143	SC 143.2.1	P <b>94</b>	L <b>24</b>	# 574
Wey, Jun	Shan	ZTE TX			Hajduczer	nia, Marek	Charter Comr	nunicatio	
Comment The s primit	t Type <b>TR</b> summary of major tives.	Comment Status A	to clarify the deta	ails of the MCRS_CTRL	Comment Wrong	<i>Type</i> <b>T</b> g expansion: lo	Comment Status D gical link identification - see 1.4	ł.313	
Suggeste Insert Response ACCE Add ti transi	dRemedy t new text in item e EPT IN PRINCIPL he following text a mission channels	a). See Supplement file wey_ <i>Response Status</i> <b>C</b> .E. at the end of a): ", which indic	_3ca_2_0918 ate envelope sta	art time, durations, and	Suggested chang Proposed PROF Cl 143 Hajduczer	dRemedy je to "logical lin Response POSED ACCEF SC <b>143.2.2</b> nia, Marek	k identifier" <i>Response Status</i> W PT. 2 <i>P</i> <b>94</b> Charter Comr	L <b>37</b> nunicatio	# 575
C/ <b>143</b> Wey, Jun	SC 143.2 Shan	Р <b>94</b> ZTE TX	L12	# 534	Comment An exa	<i>Type</i> <b>T</b> ample of such	Comment Status <b>D</b> uneven allocation might be han	ıdy.	
Comment Band zhang envel As pa revise	t Type <b>TR</b> width granted to a gweiliang_3ca_1b opes of multiple L art of the GLID rel	Comment Status <b>D</b> a GLID is shared among mult 0_0317). So within a granted ( LIDs. ated updates, Sec. 143.2 (su	iple member LLI GLID bandwidth mmary of major	Ds (see e.g. there would be multiple concept) should be	Suggested Insert are 2 1 assoc Proposed PROF	the following te transmit MCRS iated with XGM Response POSED ACCEF	ext at the end of 143.2.2: "For e S channels associated with 25G III." <i>Response Status</i> <b>W</b> PT.	xample, in 50/10 MII and 1 receiv	0G-EPON OLT, there ve MCRS channel
Suggeste	dRemedy				C/ 143	SC 143.2.3	8 P <b>94</b>	L <b>47</b>	# 483
Add it sched See S Proposed	tem g) If MCRS_( dules data from m Supplement file w I Response	CTRL primitive carries GLID I tember LLIDs of GLID, based ey_3ca_1_0918 Response Status W	pandwidth, the s I on the policy co	cheduler in MCRS nfigured by OAM.	Remein, D Comment MCRS reques	Duane <i>Type</i> <b>E</b> S_CTRL. st() crosses line	Huawei <i>Comment Status</i> <b>D</b> e		bucket
PROF	POSED REJECT.				Suggested Make	dRemedy MCRS_CTRL.	request() none breaking {Esc n	s}	
This i histor	is an attempt to spring an attempt to spring and the spring out of the spring and	pecify the operation of a DBA cope of 802.3 P2MP standard	, mechanism, so ds.	mething that has been	Proposed PROP	Response POSED ACCEF	Response Status W		

C/ 143 SC 143.2.3

C/ 143	SC 143.2.4.2	P <b>95</b>	L <b>21</b>	# 576	C/ 143	SC 143.2.4.4	P <b>96</b>	L <b>46</b>	# 577
Hajduczer	iia, Marek	Charter Comr	municatio		Hajduczer	nia, Marek	Charter Com	municatio	
Comment More	<i>Type</i> <b>E</b> "always" statemer	Comment Status D		bucket	Comment Exterr	<i>Type</i> <b>E</b> nal reference: 46.3	Comment Status <b>D</b> 3.1.4		bucket
Suggested Remo	dRemedy ve "always" in line	22			Suggested Apply	dRemedy Forrest Green co	lor to "46.3.1.4"		
Proposed PROF	Response POSED ACCEPT.	Response Status W			Proposed PROF	Response POSED ACCEPT.	Response Status W		
C/ 143 Remein, D	SC 143.2.4.2	P <b>95</b> Huawei	L <b>22</b>	# 484	<i>Cl</i> <b>143</b> Wey, Jun	SC <b>143.2.4.4</b> Shan	Р <b>97</b> ZTE TX	L <b>3</b>	# 530
Comment This s	<i>Type</i> <b>TR</b> entence and Fig 1	Comment Status D 143-3 are misleading:			<i>Comment</i> Pream	<i>Type</i> <b>TR</b> nple should be IP	Comment Status D		
"An er (one a (see F While chann single thus e	ivelope includes c at the beginning ar "igure 143–3)." true if only one ch el system where t channel. In such ach envelope can	one or more data frames and nd one at the end of the envi- nannel is available to the sys he objective is to attain a M. systems, single frames will transport multiple frame fra	d can contain at elope) and any r stem it is not ger AC data rate of r be spread over igments	most two partial frames number of whole frames nerally true for a multi- more than that of a multiple channels and	Suggestee Repla Proposed PROF	dRemedy ce "preample" wit <i>Response</i> POSED ACCEPT.	h "IPG" Response Status W		
Suggester	Remedy		5		C/ 143	SC 143.2.5	P <b>97</b>	L <b>50</b>	# 485
Chan	ne to read				Remein, D	Duane	Huawei		
"In a s	system with a sing	le channel an envelope inclu	udes one or mor	e data frames and can	Comment	Туре Т	Comment Status D		
contai	n at most two par	tial frames (one at the begin	ning and one at	the end of the	Chanr	nel bonding can b	e done to either US or DS a	nd need not be a	one to US _AND_ DS.
chann	els envelopes ma	v overlap as explained in 14	3.2.5 and frame	systems with multiple	Suggested	dRemedy			
simult single frame	aneously transmit frame. However, can remain fragm	ted over multiple channels w at the conclusion of the over nented."	with each channe erlapped transmi	el transporting parts of a ssion only a single	Chang "simul "simul	ge: Itaneously bound Itaneously bound	to N1 MCRS transmit chanr to N1 MCRS transmit chanr	nels and N2 MCF nels or N2 MCRS	RS receive channels" to: S receive channels"
Proposed PROF	Response POSED ACCEPT I	Response Status WIN PRINCIPLE.			and cl "trans "trans	nange: mit data rate of N mit data rate of N	1x25 Gb/s and the receive of 1x25 Gb/s or the receive da	data rate of N2×2 ta rate of N2×25	25 Gb/s" to: Gb/s"
Chano	e to read:				Proposed	Response	Response Status W		
"In a s contai	system with a sing n at most two part	le channel an envelope inclu tial frames (one at the begin	udes one or mor ning and one at	e data frames and can the end of the	PROF	POSED ACCEPT.			
envelo with m simult single	ope) and any num nultiple channels, o aneously transmit frame. However,	ber of < <non-fragmented>&gt; envelopes may overlap &lt;&lt;(s ted over multiple channels v at the conclusion of the over</non-fragmented>	frames (see Fig see 143.2.5)>> a with each channe erlapped transmi	ure 143–3). In systems nd frames < <may>&gt; be el transporting parts of a ssion, only a single</may>	While	small in nature, t	he change is technical. Com	iment type chan	ged from E to T.

frame <<may>> remain fragmented."

C/ 143 SC 143.2.5

~	00 440 0 5									
C/ 143	SC 143.2.5	P <b>97</b>	L <b>51</b>	# 578	C/ 143	SC	143.2.5.1	P <b>98</b>	L <b>41</b>	# 538
Hajduczeni	a, Marek	Charter Comm	nunicatio		Wey, Jun	Shan		ZTE TX		
Comment 7	ype TR	Comment Status D			Comment	Туре	TR	Comment Status D		
N1 and and not	N2 are undefine explained what	ed - these variables show up these are	in the text in a r	ather unexpected way	Sectio descri	on 143.2 ption is	2.5.1 descri s missing th	ibes LLID transmission over e following aspects and sho	r multiple MCRS ould be further ex	channels. The panded.
Suggestedl	Remedy				□ MC for dat	RS sho ta trans	ould collect	the information of channel a	availability and th	ne related time duration
Either a it does	add some explan not serve to expl	ation to what N1 and N2 are lain what it is intended	, or remove the	m altogether - right now,	□ An I are m	EQ is d ore tha	delivered ov	er the channel that has the channel, the one with the lo	earliest transmis	ssion availability. If there dex value is selected.
Proposed F PROP(	Response DSED ACCEPT I	Response Status W IN PRINCIPLE.			□ EQs EQs tı □ The	s are de ransmit grant a	elivered ove tted over the allocation ir	er multiple channels based on e same channel are formed n figure 143-7 could be optir	on channel trans i into one envelo mized to maximiz	mission availability. The pe. ze the peak rate.
Replac <sup>,</sup> Replac	e N1 with N <sub e N2 with N<sub< td=""><td>&gt;TX &gt;RX</td><td></td><td></td><td>Suggested See al</td><td>dReme Iso Sup</td><td><i>dy</i> oplement fil</td><td>e wey_3ca_2_0918</td><td></td><td></td></sub<></sub 	>TX >RX			Suggested See al	dReme Iso Sup	<i>dy</i> oplement fil	e wey_3ca_2_0918		
C/ 143	SC 143.2.5	P <b>98</b>	L <b>30</b>	# 579	Proposed	Respo	nse	Response Status W		
Hajduczeni	a, Marek	Charter Comn	nunicatio		PROP	POSED	REJECT.			
Comment T Figure (color i:	<i>Type</i> <b>E</b> 143-6 uses differ s too light)	Comment Status <b>D</b> rent colors for LLID a and LL	ID B, making Ll	bucket ID B bars hard to read	This is histori	s an att ically ou	tempt to spe ut of the sco	ecify the operation of a DBA ope of 802.3 P2MP standard	a mechanism, so ds.	mething that has been
Suggestedi	Remedy				C/ 143	SC	143.2.5.3	P <b>99</b>	L <b>43</b>	# 486
Use the	e same color for	LLID A and B alike. Also, for	improved read	ability, consider using	Remein, D	Duane		Huawei		
dashed	horizontal axes	and dotted vertical guide line	es		Comment	Туре	т	Comment Status D		
Proposed F	Response	Response Status W			While	33 is a	a good num	ber for 50G-EPON it may no	ot be right in a ge	eneric sense.
PROPO	DSED ACCEPT I	IN PRINCIPLE.			Suggested	dReme	dy			
See ha	jduczenia_3ca_2	2_0918.pdf for updated figure	9.		Chang "The r " 32 " a a size	ge: humber 2. This p size su of 33 p	r of rows is a provides su ufficient to a provides suf	set to fficient buffering" to: accommodate the expected fficient buffering"	skew, for examp	le 33. "In this example
					Proposed	Respo	nse	Response Status W		

PROPOSED ACCEPT.

C/ 143 SC 143.2.5.3

C/ 143 SC 143.3.1	P103	L <b>5</b>	# 580	C/ 143 SC 143.3.1.1	P103	L <b>45</b>	# 583
Hajduczenia, Marek	Charter Com	municatio		Hajduczenia, Marek	Charter Comm	unicatio	
Comment Type E "In addition to the M F always reads as "MPI	Comment Status D PLS service interfaces" - irresp S" = Multi Protocol Label Swi	pective of how m tching	<i>bucket</i> hany times I read it, it	Comment Type <b>E</b> Primitive name broken SuggestedRemedy	Comment Status D across line		bucket
SuggestedRemedy	an we switch from "M" to "K" (	for example)?		Make sure PLS_DATA	is not broken across lines		
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
Change "In addition to the M F	PLS service interfaces"			Cl 143 SC 143.3.1.1 Hajduczenia, Marek	.1 P103 Charter Comm	L <b>53</b> unicatio	# 584
to "In addition to the M in	nstances of the PLS service ir	nterface"		Comment Type E External reference: 46.	Comment Status D		bucket
Cl 143 SC 143.3.1 Hajduczenia, Marek	P103 Charter Com	L <b>7</b> municatio	# 581	SuggestedRemedy Add Forrest Green tag	to the reference text. Also in 1	43.3.1.1.3	
Comment Type E Forward looking refere	Comment Status <b>D</b> ence to EPON-specific figure		bucket	Proposed Response PROPOSED ACCEPT.	Response Status W		
SuggestedRemedy Drop "and Figure 143	-18" - it is not needed + updat	e Figure 143-10	accordingly	C/ 143 SC 143.3.1.2 Remein, Duane	P <b>105</b> Huawei	L <b>8</b>	# 487
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.			Comment Type E 1st instance of MPCP	Comment Status D		bucket
Drop "and Figure 143	-18" - it is not needed			SuggestedRemedy			
C/ 143 SC 143.3.1. Hajduczenia, Marek	1 P103 Charter Com	L <b>41</b> municatio	# 582	Change "MPCP" to Mu Proposed Response	Iti-Point Control Protocol (MPC Response Status W	CP)	
Comment Type E "In all single channel	Comment Status D RSs"		bucket	PROPOSED ACCEPT.			
SuggestedRemedy Change to "In all sing	le channel RS,"						
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.						

Change to "In all single-channel RS definitions,"

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 143.3.1.2 Page 28 of 37 9/12/2018 6:51:28 PM

C/ 143 SC 143.3.1.2.1 P105 L11 # 535	C/ 143 SC 143.3.2 P106 L44 # 488
Wey, Jun Shan ZTE TX	Remein, Duane Huawei
Comment Type TR Comment Status D	Comment Type E Comment Status D
Bandwidth granted to a GLID is shared among multiple member LLIDs (see e.g. zhangweiliang_3ca_1b_0317). So within a granted GLID bandwidth there would be multiple	Typo "received" should be "receiver" in "value is ignored at the received except for"
envelopes of multiple LLIDs. The format of MCRS_CTRL[ch].request(link_id, epam,	SuggestedRemedy
length(env_length) from position(epam) on channel(ch). The syntax is correct if link_id	per comment
represents a ULID/MLID/PLID. However, if link_id represents a GLID, it is incorrect to use	Proposed Response Response Status W
LLIDs form multiple envelopes on the specified channel. The MCRS CNTL primitive should	PROPOSED ACCEPT IN PRINCIPLE.
indicate the length of the granted GLID bandwidth instead. It is more appropriate to use 'grant_length' which would apply to all LLID types.	See comment #540
SuggestedRemedy	C/ 143 SC 143.3.3.1 P108 L33 # 489
See Supplement file wey_3ca_1_0918	Remein, Duane Huawei
Proposed Response Response Status W	Comment Type E Comment Status D bucket
PROPOSED REJECT.	Empty section
This is an attempt to specify the operation of a DBA mechanism, something that has been historically out of the scope of 802.3 P2MP standards.	SuggestedRemedy delete
C/         143         SC 143.3.2         P105         L50         # 540           Kramer, Glen         Broadcom	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type TR Comment Status D	C/ 143 SC 143 3 3 3 P108 / 51 # 541
The description of Envelope Header format does not indicate bit transmisison order for the	Kramer. Glen Broadcom
header.	Comment Type TR Comment Status D
Missing any information of CRC8 calculation method (generating polynomial, bit order, etc.)	The concept of EQ is introduced in clause 143. It makes more sense to have all EQ
SuggestedRemedy	constants defined in the same clause.
Replace subclause 143.3.2 with the text, figures, and tables shown in	SuggestedRemedy
kramer_3ca_1_0918.pdf. (kramer_3ca_2_0918.pdf shows clean text version)	1) Move definitions of IBI_EQ and RATE_ADJ_EQ from 142.2.2.5.1 Constants to 143.3.3.3
Main changes:	Constants. 2) in 143.3.3.3, change the definition of INTER_ENV_IDLE into following:
1) Indicate bit signifince for various header fileds in Figure 143-11, as shown in	IEI_EQ
kramer_3ca_1_0918.pdf (see red text) 2) Clarify bit order: "Octets within each envelope header field are transmitted from least	TYPE: 72-bit vector
significant to most significant. Bits within each octet are transmitted from LSB to MSB."	The Inter-Envelope Idle represents an EQ value transmitted between envelopes.
(same text as we use for MPCPDUs).	<ol><li>Replace remaining instances of INTER_ENV_IDLE with IEI_EQ.</li></ol>
Pronosed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT.	PROPOSED ACCEPT.

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

C/ 143 SC 143.3.3.3 Page 29 of 37 9/12/2018 6:51:28 PM

C/ 143	SC	143.3.3.3	P108	L <b>52</b>	# 490	C/ 143	SC	143.3.3.3	P109	L <b>3</b>	# 492
Remein, D	uane		Huawei			Remein, D	luane		Huawei		
Comment	Туре	TR	Comment Status D			Comment	Туре	т	Comment Status D		
ADJ_E	BLOCK	_SIZE deta	ils needed			INTER	R_ENV	_IDLE has b	een replaced with IEI_EQ.		
Suggested	Reme	dy				Suggested	Reme	dy			
TYPE:	intege	er				Replac	ce "INT	ER_ENV_I	DLE" with "IEI_EQ" here and	d at pg 115 lin	e 43
Value:	impler ו וא ו ח	DCK SIZE	pendent.	Os that encode	to a single FEC	On pg	117 lin	ne 19 & 20 r	eplace "INTER_ENV_IDLE"	with "Inter-Env	velope Idle"
codew	ord in t	the Nx25G-I	EPON system.			Proposed	Respoi	nse	Response Status W		
This a		a in alcoda di				PROP	OSED	ACCEPT IN	I PRINCIPLE.		
	nange	is included	in remein_3ca_2_0918.pdr.			See co	ommen	nt #541			
Proposed	Respor	nse	Response Status W			CI 442	50	442 2 2 2 2	D100	145	# 400
PROP	OSED	ACCEPT	N PRINCIPLE.			Ci 143 Romain D		143.3.3.3		L13	# 493
TYPE:	intege	r									
The A	DJ_BL(	OCK_SIZE	represents the number of E	Qs that encode	to a single FEC	Comment	Type	TR CO deteile r	Comment Status D		
COUEW			LFON System			KAIE	_ADJ_I		leeded		
Specy	fing val	lue as imple	ementation-dependent does	not add any val	ue.	Suggested	Reme	dy 			
C/ 143	SC	143.3.3.3	P <b>108</b>	L <b>52</b>	# 491	replac	e "{IBL _	D}" with "Oxi	·F-09-09-09-09-09-09-09-09"		
Remein, D	uane		Huawei			Proposed	Respor	nse	Response Status W		
Comment	Tvpe	т	Comment Status D			PROP	OSED	ACCEPT.			
The va	alue or	size of seve	erl constants and variables a	are application d	ependent. As such in	C/ 143	SC	143.3.3.3	P109	L19	# 494
143.3.	3 and 1	143.3.4 this	shold be reflected in the de	finition. Applica	tion specific definitons	Remein, D	uane		Huawei		
should	be not	ted in 143.4	.1.x.			Comment	Tvpe	TR	Comment Status D		
Suggested	Reme	dy				RATE	_ADJ_	SIZE details	needed		
See re	emein_3	3ca_2_0918	3.pdf for specific changes a	nd additions		Suggester	Reme	dv			
Proposed	Respor	nse	Response Status W			TYPE	: intege	er			
PROP	OSED	ACCEPT IN	N PRINCIPLE.			Value:	impler	mentation de	ependent.		
See re	emein_3	3ca_2a_091	18.pdf for specific changes	and additions		The R parity	ATE_A word in	DJ_SIZE va the Nx25G	ariable represents the numbe -EPON system.	er of EQs that	encode to a single FEC
						This c	hange	is included i	n remein_3ca_2_0918.pdf.		
						Proposed	Respoi	nse	Response Status W		
						PROP	OSED	ACCEPT IN	I PRINCIPLE.		
						TYPE: The R parity	: intege ATE_A word in	er \DJ_SIZE va h the Nx25G	riable represents the numbe EPON system.	er of EQs that	encode to a single FEC
						Specy	fing va	lue as imple	mentation-dependent does r	not add any va	llue.
TYPE: TR	/technic	cal required	ER/editorial required GR/	general required	T/technical E/editorial G/o	eneral			C/ 143		Page 30 of 37

The Envicenment required Envicational required Onlygener	01 143	1 ugo 00 01 01	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 143.3.3.3	9/12/2018 6:51:28 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 143 SC 143.3.3	3.4 P109	L <b>31</b>	# 495	C/ 143	SC ·	143.3.3.4	P109	L <b>46</b>	# 498
Remein, Duane	Huawei			Remein, L	Juane		Huawei		
Comment Type TR	Comment Status D			Comment	Туре	т	Comment Status D		
BlkLeft details neede	ed			Given	the finit	e size of the	e variable the following sta	tement is not qu	lite correct: "if negative
SuggestedRemedy				chanr	nel."	spiesents ti			ine last envelope on the
TYPE: integer The BlkLeft variable	represents the number of EQs	remaining in the	envelope currently	Also i withou	t should ut a gran	be noted th t).	nat EnvLeft[] is none roll-ov	ver (assuming ar	n ONU can go > 21ms
Proposed Posponso	Deenenee Statue W			Suggeste	dRemed	У			
PROPOSED ACCER	PT.			Chang "if neg	ge: gative thi	s variable r	represents the number of E	EQ periods since	the end of the last
C/ 143 SC 143.3.3 Remein, Duane	<b>3.4</b> <i>P</i> <b>109</b> Huawei	L <b>36</b>	# 496	"if neg	gative this st envelo	s variable r	epresents the minimum nu channel."	umber of EQ per	iods since the end of
Comment Type TR	Comment Status D			Add a	at end of	description	"At terminal count this var	riable does not r	ollover."
ENV_TX is not a 72-	bit shift register as implied by "7	72-bit binary arra	ay"	Proposed	Respon	se	Response Status W		
SuggestedRemedy		-	-	PROF	POSED	ACCEPT.			
Change TYPE: to "a	rray of 72-bit vectors"			CI 143	SC /	1/3 3 3 /	Ping	/ 51	# 400
This change is inclue	ded in remein_3ca_2_0918.pdf.			Remein, I	Duane	40.0.0.4	Huawei	201	# <del>1</del> 33
Proposed Response	Response Status W			Comment	Туре	т	Comment Status D		
PROPOSED ACCER	PT IN PRINCIPLE.			The p	rimary p	urpose of tl	his variable is skew remed	iation not the rov	w index into ENV_TX
Change TYPE: to "a	rray of 72-bit vectors"			which	would a	nly requires	s a 5 bit variable.		
				Suggeste	dRemed	У			
C/ 143 SC 143.3.3 Remein, Duane	<b>3.4</b> <i>P</i> <b>109</b> Huawei	L <b>40</b>	# 497	Chang "The I	ge: EnvPam	variable in	dicates the row index in the	e ENV_RX into	which the received data
Comment Type T	Comment Status D			is to b	e writter	n, its primar or more cha	y function is to remove ske innels from a single transm	ew accumulated	during transport
Given that this is see Gb/s devices $N = 4$ , is dependent on the	ction is intended to be generic w for 50 Gb/s devices N = 2, and base xMII rate which can be eit	ve should omit th for 25 Gb/s devi her 25G or 10G	his sentence "For 100 ces $N = 1$ ." as the rate	"The l or mo ENV_	EnvPam ore chanr RX into	variable is nels from a which the r	used to remove skew accorsingle transmitter. Its lowe eceived data is to be writte	umulated during er bits are also u en (see 143.3.4).	transport between two sed as the row index for
SuggestedRemedy				Proposed	Respon	se	Response Status W		
per comment				PROF	POSED	ACCEPT.			
This change is include	ded in remein 3ca 2 0918.pdf.								
Proposed Response	Response Status W								
PROPOSED ACCER	PT.								
This is a techncial cl	nange. Comment type was char	nged from E to T							

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 143.3.3.4 Page 31 of 37 9/12/2018 6:51:28 PM

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

Remein, Duane	r IIU Huawei	L16	# 500	C/ 143 SC 143.3.3. Remein, Duane	5 <i>P</i> 111 Huawei	L11	# 503
Comment Type TR We seem to have lost rC	Comment Status D			Comment Type TR GetFillerEQ function r	Comment Status D	g EnvStartHeader	definition.
SuggestedRemedy Add: rCol TYPE: Integer The rCol variable repr Transmit process. Each	esents the ENV_TX buffer of	olumn currently	being read by the	SuggestedRemedy Refer back to remein_ Proposed Response PROPOSED ACCEP	_3ca_2_0718 page 20 & 21 fo Response Status W T.	or proper definition	ns of both functions.
separate xMII interface.	n remein_3ca_2_0918.pdf.	nplementation s	pecific.	Cl 143 SC 143.3.3. Remein, Duane	6.1 <i>P</i> 113 Huawei	L <b>21</b>	# 504
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type TR What does "LinkId[wC SuggestedRemedy	Comment Status D Col] ? 0x00-00" mean?		
Cl 143 SC 143.3.3.4 Remein, Duane	P110 Huawei	L <b>25</b>	# 501	Change "?" to "!=" Proposed Response	Response Status W		
There is only one TX_CL c".	K so this phrase is extraned	ous and should b	be stricken "for channel	C/ 143 SC 143.3.3.	Г. 6.2 Р113 Низмеі	L <b>45</b>	# 505
per comment Proposed Response	Response Status W			Comment Type T This statement is redu	Comment Status D	in the next para a	and should be stricke
PROPOSED ACCEPT. This is a technical chang	e. Comment type changed	from E to T.		SuggestedRemedy per comment	state diagram is instantiated f	or each xivili.	
Cl 143 SC 143.3.3.4 Remein, Duane	P <b>110</b> Huawei	L <b>29</b>	# 502	Proposed Response PROPOSED ACCEP	Response Status W		
Comment Type T TxActive description nee	Comment Status D ded			This is a technical cha	ange. Comment type change	d from E to T.	
SuggestedRemedy Replace { description } w currently enabled for use prohibited at all times."	ith "When True the TxActive When this variable is Fals	e[c] variable indie e transmission o	cates that channel c is on channel c is				
Proposed Response	Response Status W						

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

C/ 143 SC 143.3.3.6.2 Page 32 of 37 9/12/2018 6:51:28 PM

Cl 143 Remein, Dua	SC 143.3.4.3	P <b>116</b> Huawei	L <b>7</b>	# 506	<i>Cl</i> <b>143</b> Remein, D	SC 1 uane	43.3.4.3	P <b>116</b> Huawei	L <b>52</b>	# 508
Comment Ty ENV_RX	pe <b>TR</b> ( is not a 72-bit s	Comment Status D			Comment We se	<i>Type</i> em to h	<b>TR</b> ave lost w	Comment Status D Col and wRow definition	S	
SuggestedRe Change This cha Proposed Re PROPO:	emedy TYPE: to "array nge is included i esponse SED ACCEPT.	of 72-bit vectors" in remein_3ca_2_0918.pdf. <i>Response Status</i> <b>W</b>			Suggested Add: wCol The Receiv separa	Remedy wCol va ve proce ate xMII	y ariable rep ess. Each o interface.	resents the ENV_RX bu column corresponds to a	ffer column current separate reception	ly being written by the n channel, i.e., a
Cl <b>143</b> Remein, Dua	SC 143.3.4.3	<i>Р</i> 116 Ниаwei	L11	# 507	wRow The the Re	wRow v ceive pr	variable re rocess.	presents the ENV_RX b	uffer row index cur	rently being written by
Comment Ty Given the Gb/s dev is depen	pe E at this is section vices $N = 4$ , for 5 dent on the base	Comment Status <b>D</b> is intended to be generic we 50 Gb/s devices $N = 2$ , and fo e xMII rate which can be eithe	should omit th r 25 Gb/s devie er 25G or 10G.	is sentence "For 100 ces N = 1." as the rate	This cl Proposed PROP	hange is <i>Respon</i> s OSED <i>F</i>	s included se ACCEPT.	in remein_3ca_2_0918.p Response Status W	odf.	
per comr This cha Proposed Re PROPO:	nge is included i sponse SED ACCEPT.	in remein_3ca_2_0918.pdf. <i>Response Status</i> <b>W</b>			Cl <b>143</b> Remein, D Comment Duplic	SC 1 uane <i>Type</i> ate alph	I43.4.1 E na list) Alph	P121 Huawei Comment Status D na list) not needed.	L <b>3</b>	# 509 bucket
This is a	technical chang	je. Comment type changed fr	om E to T.		Suggested Remov Proposed PROP	Remedy ve the d Respons OSED A	y up "alpha) se ACCEPT.	"s Response Status W		
					C/ <b>143</b> Remein, D Comment	SC 1 uane Type	143.4.1 T	P121 Huawei Comment Status D	L <b>3</b>	# 510
					Assum Suggested Chang "suppo "suppo "suppo	ning we IRemedy le: orting 25 orting 25	will use 10 y 5 Gb/s ope 5 Gb/s or 1	G in the US direction ration" to: 0 Gb/s operation"		
					Proposed PROP	Respon OSED A	se ACCEPT.	Response Status W		
TYPE: TR/te	chnical required	ER/editorial required GR/ge	eneral required	T/technical E/editorial G	general			Cl	143	Page 33 of 37

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

C/ 143 SC 143.4.1	P121	L <b>4</b>	# 585	C/ 143 SC 143.4.1.2	P122	L1	# 512
Hajduczenia, Marek	Charter Comr	nunicatio		Remein, Duane	Huawei		
Comment Type E	Comment Status D		bucket	Comment Type E	Comment Status D		bucket
Double lettered list				This para should be pa	irt of the preceding para whic	ch deals with "A di	stinction is made
SuggestedRemedy				regarding the underlyin	ig mechanisms of achieving	the asymmetric di	ata rates.
Remove one of the lis	st levels			SuggestedRemedy			
Proposed Response	Response Status W				<b>э</b> .		
PROPOSED ACCEP	Т.			Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 143 SC 143.4.1	P <b>121</b>	L10	# 511		•		
Remein, Duane	Huawei			C/ 143 SC 143.4.1.2	P <b>122</b>	L12	# 532
Comment Type T	Comment Status D			Wey, Jun Shan	ZTE TX		
Duplicate statement v	with Pg 119 line 43: An MCRS	channel that ca	rries information from	Comment Type TR	Comment Status D		
the OLT to the ONU is	s referred to as the downstrea	m channel (DC)	and the channel that	"transmit on DC0 and	d DC1" is incorrect		
	om an ONU to the OLT is relef	red to as the up	stream channel (UC).	SuggestedRemedy			
SuggesteaRemeay				Change to 'receive' on	DC0 and DC1		
Strike				Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCEPT			
PROPOSED ACCEP	1.			This is a technical cha	nge. Commint type changed	from E to T.	
Comment is technical	l in nature. Comment type cha	nged from E to <sup>-</sup>	Г.				
CI 143 SC 143 4 1	2 P121	/ 48	# 531	C/ 143 SC 143.5	P124	L <b>2</b>	# 586
Wey, Jun Shan	ZTE TX	240	" <u>3</u>	Hajduczenia, Marek	Charter Com	municatio	
Commont Type EP	Commont Status D		huokot	Comment Type E	Comment Status D		bucket
Typo "were" should be			DUCKEI	Wrong capitalization: N	IULTI-CHANNEL Reconcilia	tion SUBLAYER	
				SuggestedRemedy			
SuggestedRemedy				Change to "Multi-Chan The same fix needed c	nel Reconciliation Sublayer" on page 125, line 4/5		
Proposed Response	Response Status W			Proposed Response	Response Status W		
PROPOSED ACCEP	Т.			PROPOSED ACCEPT			

C/ 143 SC 143.5

# Proposed Responses ical Sp

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

Cl 144 SC 144 Kramer Glen Br	P127 L1	# 548	C/ 144 S Kramer Glen	SC 144	P <b>127</b> Broadcom	L1	# 549
Kramer, Glen Br Comment Type TR Comment Sta The following state diagrams in clause 1 applicable to 802.3ca: Figure 144–17—Discovery Processing C Figure 144–18—Discovery Processing C Figure 144–19—Discovery Processing C Figure 144–20—DISCOVERY Activation SYNC_PATTERN Validation ONU state Figure 144–24—Gate Processing state	oadcom <i>tus</i> <b>D</b> 44 were copied from Claus )LT Register state diagram )LT Final Registration stat )NU Registration state dia 1 ONU state diagram (miss diagram) diagram at OLT	se 77, but they are not n e diagram gram sing alignment with	Kramer, Glen Comment Typ Clause 14 SuggestedRei Organize 1) Genera EPON. 2) Protoco	e TR 4 contains a <i>medy</i> the clause in I introduction	Broadcom Comment Status <b>D</b> lot of repetition and flow or m to separate areas (in this orde n of P2MP operations for read	aterial is confu er): ers familiar witl	sing. h Ethernet, but not with
Figure 144–28—Report Processing state Figure 144–29—Report Processing state MPCP cannot generate keep-alive REP allocation, they cannot be transmitted. A Many of the constant, variable, function,	<ul> <li>a diagram at ONU</li> <li>a diagram at OLT</li> <li>DRTs because without spe different method is requir</li> <li>and message definitions at the spectrum of the spec</li></ul>	ecific PLID envelope ed. are missing	3) Protoco [MPCP] a Adopt the <i>Proposed Res</i> PROPOS	ol-specific op nd Channel ( clause outlir ponse ED ACCEPT	eratoions (currently two protoc Control Protocol [CCP]) ne as shown in kramer_3ca_3 <i>Response Status</i> <b>W</b>	cols: Myltipoint _0918.pdf.	Control Protocol
SuggestedRemedy Replace the existing Clause 144 with the Main changes: 1) DISCOVERY and SYNC_PATTERN daigram in the OLT and in the ONU to g to discovery only if it received 2 or 3 SYI 2) Clarified sublayer interfaces and adde request primitives (MCSI + MCSR, MCII 3) Introduced a better and more concise	e material provided in kram MPCPDU handing are con uarantee the proper alignn NC_PATTERN MPCPDUs ed interface-specific abbrev + MCIR, MADI + MADR) notation for processing m	ner_3ca_3_0918.pdf. nbined into a single state nent (i.e., ONU responds ) viations for indication and essages withing the	Cl 144 S Hajduczenia, I Comment Typ Missing re SuggestedRer Change "s live Proposed Res PROPOSI	SC 144.1 Marek e T oference in re medy see LLID in < sponse ED ACCEPT	P128 Charter Comm <i>Comment Status</i> D ed STBD, Clause 143>" to "see Ll <i>Response Status</i> W	L12 hunicatio LID in 143.2.1"	# <u>587</u>
<ul> <li>4) Added missing definitions.</li> <li>5) Total number of state diagrams reduce</li> <li>6) Added allocations fro LLID values per</li> <li>7) Cleaned up definitions of set access resome subclauses (mostly introductory tee</li> </ul>	ed from 14 to 10 editorial note on page 152 nethods (IsEmty, Clear, R ext) are to be supplied at a	2 emoveHead, PeekHead). later time.	Cl 144 S Hajduczenia, I Comment Typ Goals and SuggestedRei Strike 144 Proposed Res	SC 144.1.1 Marek e E I objectives a medy 1.1 sponse	P128 Charter Comm Comment Status D are not needed Response Status W	L17 nunicatio	# <u>588</u> bucke

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/ 144 Pa SC 144.1.1 9/1

Cl 144 SC 144.1.2 Hajduczenia, Marek	P <b>128</b> Charter Com	L <b>24</b> municatio	# 589	C/ <b>144</b> SC <b>144.2.3.4</b> Wey, Jun Shan	P133 ZTE TX	L <b>25</b>	# 536
Comment Type E "Figure 144–2 depict" SuggestedRemedy Per comment Proposed Response	Comment Status D and should be "Figure 144–2 Response Status W	depicts"	bucket	Comment Type <b>TR</b> GLID definition (based relationship between G SuggestedRemedy See Supplement file w Proposed Response	Comment Status <b>D</b> on 143.2.1.4 in D1.2_diff) sh GLID and LLIDs. ey_3ca_1_0918 Response Status <b>W</b>	nould be updated	to clarify the
Cl 144 SC 144.1.2 Hajduczenia, Marek	P <b>128</b> Charter Com	L <b>32</b> municatio	# 590	PROPOSED REJECT. This is an attempt to s historically out of the s	pecify the operation of a DB/ cope of 802.3 P2MP standar	A mechanism, sor ds.	nething that has been
Comment Type E "This clause also spec SuggestedRemedy Change to "This claus Proposed Response PROPOSED ACCEP	Comment Status D cifies a specific " - a tad too se also defines a specific" Response Status W T.	o specific :)	bucket	Cl 144 SC 144.3 Remein, Duane Comment Type E Use of Italics should be SuggestedRemedy Globally scour the draf	P132 Huawei <i>Comment Status</i> D e reserved for variables and t for inappropriate use of itali	L33 not used for empt	# <u>513</u> bucket
C/ 144 SC 144.1.2 Hajduczenia, Marek	P <b>128</b> Charter Com	L <b>36</b> municatio	# 591	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Type E MPCP has been expa SuggestedRemedy Change "MultiPoint C Proposed Response PROPOSED ACCEP	Comment Status D anded before ontrol Protocol (MPCP)," to "M <i>Response Status</i> W T.	IPCP"	bucket	Cl 144 SC 144.3.2.3 Kramer, Glen Comment Type TR 16-bit integer is not suf SuggestedRemedy In the definitions of nev 24-bit unsigned integer Proposed Response PROPOSED ACCEPT	B P136 Broadcom Comment Status D fficient to hold RTT values in wRTT and RTT, change "TYI " <i>Response Status</i> W	L <b>48</b> EQ anymore. PE: 16-bit unsigne	# 542

C/ 144 SC 144.3.2.3

C/ 144	SC 144.4.2.2	P146	L15	# 543	C/ 144	SC 144.4.4.1	P168	L <b>3</b>	# 514
Kramer, G	ien Tana <b>T</b>	Broadcom			Remein, D	uane Tana <b>T</b>			
SpInde not pe	Type T ex "may have val rmitted.	<i>Comment Status</i> <b>D</b> ues" is not specific enough, a	s it does not sa	y that other valus are	Comment This s chann all allo	<i>Type</i> T tatement is not cl el shall start at G cated envelopes	comment Status <b>D</b> ear: "When multiple channe rant Start Time and shall ha together with the associated	els are assigned ive the length as d optical and FE	, a transmission on each s necessary to transmit C overhead."
Suggester	Remedy	of Saladay with the one below			Suggested	IRemedv			
Replace the definition of SpIndex with the one below: "This variable represents the index of the synchronization pattern announced by the OLT in the SYNC_PATTERN MPCPDU. The SpIndex variable takes values 0 or 1 in case when two synchronization patterns are used, or 0, 1, and 2, in case when three synchronization patterns are used. Details about individual synchronization pattern elements, their number, and meaning are covered in 142.2.2.2."						le from: n multiple channe Time and shall ha er with the assoc n the bitmap indic	Is are assigned, a transmiss ve the length as necessary iated optical and FEC overh ates multiple channels are a	sion on each ch to transmit all a head." to read: assigned, the tra	annel shall start at Grant llocated envelopes
Proposed	Response	Response Status W			and du the su	iration are the sa	me for all indicated channel ath fields."	s as dictated by	Grant Start Time and
PROP	OSED ACCEPT.				Proposed	Response	Response Status W		
C/ 144	SC 144.4.3	P <b>158</b>	L <b>32</b>	# 539	PROP	OSED ACCEPT.			
Wey, Jun	Shan	ZTE TX			C/ 144	SC 144.4.4.4	P <b>172</b>	L <b>31</b>	# 515
Comment	Type TR	Comment Status D			Remein, D	uane	Huawei		
Clarific	cation should be i	made to relate grant allocation	n to maximize tl	ne peak rate,	Comment	Type <b>TR</b>	Comment Status D		
Suggested Insert	<i>IRemedy</i> new text as show	n in Supplement file wey_3ca	a_2_0918		Is this Requirement within a requirement needed? "The REGISTER MPCPDU is an instantiation of the Generic MPCPDU and shall be as shown in				
Proposed	Response	Response Status W			Figure a) DA.	144–34 with deta The destination	ails defined as follows: address used shall be an in	dividual MAC ad	ddress.
PROP	USED REJECT.				Suggested	lRemedy			
This is histori	an attempt to sp cally out of the so	ecify the operation of a DBA cope of 802.3 P2MP standard	mechanism, so s.	mething that has been	Chang "a) DA "a) DA	e: The destination The destination	address used shall be an ir address used is an individu	ndividual MAC a al MAC addres	ddress." to read: s."
					Proposed PROP	Response OSED ACCEPT.	Response Status W		
					<i>Cl</i> <b>144</b> Wey, Jun	SC <b>Fig 144-3</b> Shan	, <b>144-4</b> <i>P</i> <b>131</b> ZTE TX	L	# 533
					Comment Figure	<i>Type</i> ER 144-4 comes be	Comment Status D fore Fig. 144-3		bucket
					Suggested Revers	<i>IRemedy</i> se the figure num	bers		
					Proposed PROP	Response OSED ACCEPT.	Response Status W		

C/ 144 SC Fig 144-3, 144-4