C/ FM	SC	P1	L <b>27</b>	# 275		C/ FM SC FM	P10
Marris, Ar	rthur	Cadence Des	ign Systems			Wienckowski, Natalie	General Motors
Comment 802.3	<i>Type</i> <b>ER</b> cd is published.	Comment Status A			bucket	Comment Type E 802.3-2018 has been	Comment Status A published
Suggeste Chan	dRemedy ge 802.3cd-201x	tion of what this amendment	page 10			SuggestedRemedy Change: 802.3-201x To: 802.3-2018 Also on P10 L37 & P Response	
AISO (	change TEEE Sto	802.3-201x" to "IEEE Std 80	2.3-2018" throug	nout the docume	nt.	, ACCEPT.	
		e "This amendment includes	[complete]" with	appropriate text.		C/FM SC FM	P10
Response		Response Status C				Wienckowski, Natalie	General Motors
ACCE	:P1.					Comment Type E	Comment Status A
C/ FM	SC FM	P1	L <b>27</b>	# 279		802.3bt also added A	
Wienckow	vski, Natalie	General Moto	rs			SuggestedRemedy	
Comment 802.3	<i>Type</i> <b>E</b> cd has been publ	Comment Status A			bucket	Change: Annex 1454	A, and Annex 145B. nex 145B, and Annex 145C.
Suggeste	dRemedy					Response	Response Status C
To: 80	ge: 802.3cd-201) 02.3cd-2018 on P10 L43.	K				ACCEPT.	
Response	9	Response Status <b>C</b>					
ACCE	EPT.						
C/ FM	SC FM	P <b>9</b>	L <b>5</b>	# 436			
Powell, W	/illiam	Nokia					
This i Amer	nt text still refers ntroduction is not idment: Physical	Comment Status A to 100 Gb/s EPON: part of IEEE P802.3ca, IEEE Layer Specifications and Man ssive Optical Networks.			50		
Suggeste							
Amer	ntroduction is not	part of IEEE P802.3ca, IEEE Layer Specifications and Man al Networks.			and		
Response	, ,	Response Status C					
ACCE	EPT.						
				<b>-</b> // · · · - · ·			<b>-</b>

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

Approved Responses

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ FM SC FM L31

L**38** 

# 280

# 282

bucket

bucket

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#### IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

, .pp. 01			E 1 002.000 D 2.	
C/ FM	SC FM	P10	L <b>49</b>	# 59
Zimmerm	an, George	CME Cor	sulting/ADI, APL G	p, Aquantia, BMW, Cisco
Comment	Type E	Comment Status A		frontmatte
descri		2.3cq amendments before a - It would be REALLY he		
Suggestee	dRemedy			
	802.3cg, 802.3 cription for 802	cm, 802.3cn, and 802.3cq 3ca.	descriptions from 8	02.3cn D2p1, and fill in
Response	•	Response Status C		
ACCE	PT IN PRINCI	PLE.		
Updat	e FrontMatter t	o the latest version availab	le.	
Includ	e summary de	scription of IEEE Std 802.3	ca™-201x as follow	/S:
specif Physic Mediu rates equip	ies the 25 Gb/s cal Coding Sub im Dependent s while maintaini	b/s, 50/10 Gb/s, 50/25 Gb/s EPON Multi-Channel Rec layers (PCSs), Physical Me sublayers (PMDs) that supp ng backward compatibility v N operation is defined for c	conciliation Sublayer edia Attachments (F port both symmetric vith already deploye	MCRS), 25GBASE-PQ PMAs), and Physical and asymmetric data ed 10 Gb/s EPON
C/ FM	SC FM	P10	L <b>50</b>	# 64
Anslow, F	ete	Ciena		
Comment	Туре Е	Comment Status A		frontmatter; bucke
The s	ummary text fo	r IEEE Std 802.3ca-20xx is	missing	
Suggestee Add s	dRemedy uitable summa	rv text		
Response				
	PT IN PRINCI	Response Status <b>C</b> PLE.		
See c	omment #59			

C/ FM	SC I	-M	P10	L <b>52</b>	# 281
Wienckowsk	i, Nat	alie	General Motors		
Comment Ty	pe	Е	Comment Status A		frontmatter; bucket
Need to a	add a	descriptio	n of this ammendment		

SuggestedRemedy

Change: This amendment includes [complete]

To: This amendment includes changes to IEEE Std 802.3-2018 and adds Clause 141 through Clause 144 and Annex 142A. This amendment extends the operation of Ethernet Passive

Optical Networks (EPONs) to multiple channels of 25 Gb/s providing both symmetric and asymmetric operation for the following data rates (downstream/upstream): 25/10 Gb/s, 25/25 Gb/s, 50/10 Gb/s, 50/25 Gb/s, and 50/50 Gb/s. This standard specifies the 25 Gb/s EPON Multi-Channel Reconciliation Sublayer (MCRS), 25GBASE-PQ Physical Coding Sublayers (PCSs), Physical Media Attachments (PMAs), and Physical Mediam Dependent sublayers (PMDs) that support both symmetric and asymmetric data rates while maintaining complete backward compatibility with

already deployed 10 Gb/s EPON equipment. Backward compatibility with deployed 1G-EPON and ITU-T G.984 GPON is maintained with 25GBASE-PQ for the specific case of 1G-EPON and GPON ONUs using reduced-band (40 nm) lasers. The EPON operation is defined for distances of at least 20 km, and for a split ratio of at least 1:32.

Response ACCE	PT IN PRI	,	onse Status	С			
See c	omment #5	59					
C/ FM	SC FM		P <b>2</b>	0	L <b>46</b>	# 65	j
Anslow, P	ete		Ciena	a			
Comment	Туре Е	Com	ment Status	Α			bucket
	OC entries ative).	for Annex 31	and Annex	142A ar	e mixed togethe	er and they bo	oth say
Suggested Fix the							
Response ACCE		Resp	onse Status	С			

C/ FM SC FM

#### IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 00										
00	SC O	Р	L	# 63	C/ 00	SC (	נ	P <b>0</b>	LO	# 466
Zimmerma	an, George	CME Consu	ulting/ADI, APL Gp	, Aquantia, BMW, Cisco	Thompso	n, Geoff		GraCaSI S.A./	Independent	
Comment	Type E	Comment Status A			Comment	Туре	ER	Comment Status A		
		3 value/comment implies n the requirement itself (						ISO Reference Model, the rig sical Layer is imprecisely place		yer dividing line
		all be able to tolerate with			Suggeste	dRemed	v			
Also, t	this PICS item is a d	le to tolerate, OR shall b luplicate of PQG2510D2 nts in the Table (and the	2F2, because that F	PICS item includes ALL		right end		ashed line precisely at the up	per left corner o	f the MCRS box in all
		ig, the damage threshold			Response	<i>;</i>		Response Status <b>C</b>		
		d 802.3 2018 handles th		rements both ways -	ACCE	PT.				
		el, or simply meeting the rs to be that the requirem		ne level specified	C/ 00	SC C	)	P <b>0</b>	L <b>0</b>	# 467
(Claus	ses 88, 89, 95, 114,	115, 121, 122, and 124 f			Thompso	n, Geoff		GraCaSI S.A./	Independent	
		and PICS 124.12.4.3) 75 specify that the requ	iromont mov ho m	ot OB the DMD may	Comment		ER	Comment Status A		
be labe	beled. In this case, the DR label appropriate	he requirement to withst	and damage is act	ually to either meet the				ISO Reference Model, the rig Network Layer is imprecisely		ayer dividing line
		es to ALL the PMD recei	iver damage thresh	nold PICS.	Suggeste		•			
Suggested	dRemedy		-			right end all insta		ashed line precisely at the up	per left corner o	f the MPMC CLIENT
	nding on the intent (s				Response			Response Status C		
	delete the PICS for	the damage threshold.			ACCE	:PT.				
Either OR:		-						P10	/ 40	# 60
Either OR: strip tl	the damage threshol	ld out of the table into the			C/ 00	SC (	)	P10	L <b>49</b>	# 58
Either OR: strip ti require	the damage threshol	-			C/ <b>00</b> Maguire,	SC <b>(</b> Valerie	-	The Siemon C		
Either OR: strip tl require examp "Either indicat	the damage threshol ement in the normati ole text: r the damage thresh te the maximum opti	ld out of the table into the	such. See, 60.6.2, , or, the receiver st	75.4.2, 75.5.2 for nall be labeled to	C/ <b>00</b> Maguire, Comment	SC <b>(</b> Valerie <i>Type</i>	E			
Either OR: strip tl require examp "Either indicat withou	the damage threshol ement in the normatiole text: r the damage thresh te the maximum option ut damage."	ld out of the table into the interview text (in 141.5.2) as shold of XXX shall be met, ical input power level to	such. See, 60.6.2, , or, the receiver sh which it can be co	75.4.2, 75.5.2 for nall be labeled to ntinuously exposed	C/ <b>00</b> Maguire, Comment	SC <b>(</b> Valerie <i>Type</i> nation for	E r Amendr	The Siemon C Comment Status A		
Either OR: strip tl require examp "Either indicat withou (where	the damage threshol ement in the normatiole text: r the damage thresh te the maximum option ut damage."	ld out of the table into the interior the interior (in 141.5.2) as shold of XXX shall be met,	such. See, 60.6.2, , or, the receiver sh which it can be con h the damage three	75.4.2, 75.5.2 for nall be labeled to ntinuously exposed	Cl 00 Maguire, Comment Inform Suggester Insert	SC C Valerie <i>Type</i> nation for dRemedy , "IEEE S	E r Amendr ly Std 802.3	The Siemon C Comment Status A nent 4: 802.3cg is missing. cg™-20xx Amendment 4—Th	Company nis amendment i	frontmatter; buck
Either OR: strip ti require examp "Either indicat withou (where level in	the damage threshol ement in the normati ole text: r the damage thresh te the maximum opti tt damage." e XXX either specifie nline in the text - whi	ld out of the table into the interview text (in 141.5.2) as shold of XXX shall be met, ical input power level to be the separate table with	such. See, 60.6.2, , or, the receiver sh which it can be con h the damage three forward).	75.4.2, 75.5.2 for nall be labeled to ntinuously exposed	Cl 00 Maguire, Comment Inform Suggeste Insert IEEE Annez	SC ( Valerie <i>Type</i> nation for <i>dRemedy</i> , "IEEE S Std 802. x 146B. 1	E r Amendr y Std 802.3 .3-2018 a This ame	The Siemon C Comment Status A nent 4: 802.3cg is missing. cg™-20xx Amendment 4—Th nd adds Clause 146 through 0 ndment adds 10 Mb/s Physica	Company his amendment i Clause 148 and al Layer specific	frontmatter; buck includes changes to Annex 146A and ations and
Either OR: strip ti require examp "Either indicat withou (where level in	the damage threshol ement in the normation of text: r the damage thresh te the maximum option t damage." e XXX either specifie nline in the text - white e remedy applies to c	Id out of the table into the ive text (in 141.5.2) as s hold of XXX shall be met, ical input power level to es the separate table with ichever is more straightf	such. See, 60.6.2, , or, the receiver sh which it can be con h the damage three forward).	75.4.2, 75.5.2 for nall be labeled to ntinuously exposed	Cl 00 Maguire, Comment Inform Suggeste Insert IEEE Annez	SC ( Valerie <i>Type</i> nation for <i>dRemedy</i> , "IEEE S Std 802. x 146B. 1	E r Amendr y Std 802.3 .3-2018 a This ame	The Siemon C Comment Status A nent 4: 802.3cg is missing. cg™-20xx Amendment 4—Th nd adds Clause 146 through 0	Company his amendment i Clause 148 and al Layer specific	frontmatter; buck includes changes to Annex 146A and ations and
Either OR: strip th require examp "Either indicat withou (where level ir (same Response	the damage threshol ement in the normation of text: r the damage thresh te the maximum option t damage." e XXX either specifie nline in the text - white e remedy applies to c	Id out of the table into the ive text (in 141.5.2) as s hold of XXX shall be met, ical input power level to es the separate table with ichever is more straightfo other receiver damage th	such. See, 60.6.2, , or, the receiver sh which it can be con h the damage three forward).	75.4.2, 75.5.2 for nall be labeled to ntinuously exposed	Cl 00 Maguire, Comment Inform Suggeste Insert IEEE Annez	SC ( Valerie <i>Type</i> nation for <i>dRemedy</i> , "IEEE S Std 802. x 146B. 1 gement p	E r Amendr y Std 802.3 .3-2018 a This ame	The Siemon C Comment Status A nent 4: 802.3cg is missing. cg™-20xx Amendment 4—Th nd adds Clause 146 through 0 ndment adds 10 Mb/s Physica	Company his amendment i Clause 148 and al Layer specific	frontmatter; buck includes changes to Annex 146A and ations and

Delete all the PICS for the damage threshold and associated labelling (e.g., PQG2510D2F3)

See comment #59

C/ 00 SC 0

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

••	•						U	·		
CI <b>00</b>	SC O	P <b>21</b>	L <b>46</b>	# 429	C/ 1	SC	1.3	P <b>22</b>	L15	# 67
Dawe, Pie	ers	Mellanox			Anslow, F	Pete		Ciena		
Comment	t Type E	Comment Status A		frontmatter; bucket	Comment	Туре	Е	Comment Status A		buck
	is too out of date: P802.3bj and IEE	"other IEEE 802.3 amendmer EE P802.3bk)"	nt projects runni	ing in parallel (e.g.,				in-force standard have an em s also true for other "-" separate		"Part" with no spaces
Suggeste	dRemedy				Suggeste	dReme	dy			
Use a	an up-to-date exar	mple, refer to template mainta	iner to update i	f not already done				being added replace " - " befo		e", "Part", and
Response	Э	Response Status C					d" with ar	n em dash with no spaces befo	re and after.	
ACCE	EPT IN PRINCIPL	.E.			Response			Response Status C		
See	comment #59				ACCE	EPT.				
C/ 1	SC 1.3	P <b>22</b>	L <b>8</b>	# 430						
Dawe, Pie	ers	Mellanox								
Comment	t Type <b>T</b>	Comment Status A								
we sh	nould not give an i	G.652.C, leaving B and D. Ye impression that they don't.	et several claus	es will work with A or C;						
Suggeste	dRemedy									
new r	eference to G.562	rant to include types A and C f 2-2016, leaving G.652-2009 in -2009, which remains availabl	place. If you c							
Response	9	Response Status C								
ACCE	EPT IN PRINCIPL	.E.								
		o G.652-2016, leaving G.652-2 o the right location. Make all r								
C/ 1	SC 1.3	P <b>22</b>	L13	# 66						
Anslow, F	Pete	Ciena								
Comment	t Type E	Comment Status A		bucket						
IEEE	references in the	in-force standard do not have	e a date at the e	end of the title						
Suggeste	dRemedy									
00	e ", 24 July 2017"									
Response	e	Response Status <b>C</b>								
		, -								

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 1 SC 1.3

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2/1 SC 1.4	P <b>22</b>	L <b>24</b>	# 68		C/ 1	SC ·	1.4.90a	P <b>22</b>	L <b>45</b>	# 432	
Anslow, Pete	Ciena				Dawe, Pier	s		Mellanox			
Comment Type E	Comment Status A for definitions in 1.4 is defined at:		bı	ucket	Comment 7		E sustained	Comment Status A			bucket
	2.org/3/WG_tools/editorial/require		nl#sort					lineaghpat			
	been correctly applied to the P8				Suggested						
Also, definitions ar	e usually presented in subclause	e order in amendn	nents.		a maxii	mum si	ustained t	hroughput (several times)			
SuggestedRemedy					Response			Response Status <b>C</b>			
	editing instructions and definition new definitions after 1.4.90 "200		llows:		ACCEF	PT.					
1.4.90a 25/10G-EF 1.4.90b 25/25G-EF	PON:				C/ 1	SC ·	1.4.244a	P <b>23</b>	L18	# 459	
	new definition after 1.4.100 "250	GBASE-T":			Thompson	, Geoff		GraCaSI S.A./	ndependent		
1.4.100a 25G-EPC					Comment 7	Гуре	ER	Comment Status R			
Insert the following Std 802.3cd-2018: 1.4.128aaa 50/100		a "50GBASE-CR"	as inserted by IEE	E				first use of the term "envelope istinguish it from an envelope		t. Please refer t	to it as
1.4.128aab 50/100					Suggested	Remed	V				
1.4.128aac 50/500					••		-	xt: "In the Multi-Channel Reco	nciliation Subla	aver (MCRS_see	e
Insert the following	new definition after 1.4.128ah " ted by IEEE Std 802.3cd-2018:	50 Gb/s Media Inc	dependent Interface		Clause	143), a	an envelo	be encapsulates data belonging annel," TO READ: "In the Mu	ng to a specific	LLID being trans	smitted
1.4.128ai 50G-EP								B), a timing envelope encomp			
	new definitions after 1.4.244 "E	nergy-Efficient Etl	nernet (EEE)":					on a specific MCRS channel,		inging to a opposi	
1.4.244a envelope						<b>J</b>					
1.4.244b envelope					Response	_		Response Status U			
1.4.244c envelope					REJEC	ЭТ.					
	new definitions after 1.4.245 "er	nvelope frame":			When	aalaatir	a the terr	n "envelope", the TF has revie	wod the base of	dooumont to one	
1.4.245a envelope 1.4.245b envelope								terms. In the existing body of			
1.4.245c EQT:	quantum						n two cont				elope
	new definition after 1.4.277 "Gig	nabit Media Indep	endent Interface					<ul> <li>always used as this combin</li> </ul>	ation of words		
(GMII)":		gabit modula maop						- always clear from the PMD		n clause.	
1.4.277a GPON:								e word "envelope" by itself in			be
Change 1.4.278 as					confusi	ing to r	eaders. H	owever, the term "timing enve	lope" may be c	onfusing becaus	se the
1.4.278 Grant:					term "e	envelop	e" is not r	elated to time, but rather it is			
Change 1.4.312 (re 802.3bt-2018) as f	e-numbered from 1.4.313 due to ollows:	the deletion of 1.4	4.294 by IEEE Std		being ti	ransmi	tted or rec	eived.			
1.4.312 Logical Lir	nk Identifier (LLID):										
	on for "MCRS channel" after 1.4.3										
	4.320 due to the deletion of 1.4.2	94 by IEEE Std 8	02.3bt-2018) as								
follows:											
1.4.319a MCRS ch											
	on for "Nx25G-EPON" after 1.4.3	(	nbered from 1.4.351								
	of 1.4.294 by IEEE Std 802.3bt-	-2018) as follows:									
Response	Response Status C										
ACCEPT.											
	quired ER/editorial required GR	, , , , ,						C/ 1		Page 5 d	

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

C/ 1 SC **1.4.244a**  Page 5 of 103 9/17/2019 11:11:41 AM

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C/ 1	SC 1.4.244b	P <b>23</b>	L <b>22</b>	# 460	C/ 1	SC ·	1.4.244c	P <b>23</b>	L <b>26</b>	# 461
Thompso	on, Geoff	GraCaSI S.A	./Independent		Thomps	on, Geoff		GraCaSI S.A.	./Independent	
Commen	t Type ER	Comment Status R			Commer	t Type	TR	Comment Status A		
		ent, the general term "envel	ope" is already u	sed elsewhere in	The	paramete	rs to not "	describe" the timing envelop	oe, they are its de	fining parameters.
802.3	3. This will be a ca	use for confusion.			Suggest	edRemed	'y			
00	edRemedy				Cha	nge "desc	ribe" to "d	efine".		
		I use at this level as a "timin pe. The change is needed I			Respons	е		Response Status <b>C</b>		
		lease do a global search an			•		RINCIPLE			
"enve	elope" for possible	modification.								
Respons	e	Response Status U			See	comment	#433			
REJE	ECT.				C/ 1	SC ·	1.4.244c	P <b>23</b>	L <b>26</b>	# 433
Thor	e are no other "env	elopes" used in the standar	d today, so there	is no confusion with	Dawe, P	iers		Mellanox		
		self is defined as a term (1.4			Commer	t Type	т	Comment Status A		
throu	ighout the draft.				I dor	't know w	/hat you m	nean by "tuple". As you don'	't bother to use th	e word anywhere else
See	comment #459.				in th	s draft, a	nd it does	n't appear in Section 1 with i	ts 507 definitions	, it can't be necessary.
					Suggest	edRemed	<i>y</i>			
C/ 1	SC 1.4.244b	P <b>23</b>	L <b>23</b>	# 28	Cha	nge to "se	equence".			
Hajducze	enia, Marek	Charter Com	munications		Respons	е		Response Status <b>C</b>		
Commen	t Type ER	Comment Status R		can-vs-may	ACC	EPT IN F	RINCIPLE	Ξ.		
"can'	used and not inter	nded per Style Guide			Deth	tunla and		a are urreng here as the ard	and act accuracy	a act of homogeneuro
Suggeste	edRemedy							e are wrong here as the ord ing ordered in envelope des		a set of nomogenous
Char	nge "A single GATE	MPCPDU can carry up" to	"A single GATE	MPCPDU may carry up"					•	
Respons	е	Response Status <b>C</b>						criptor: A set of parameters of e descriptor defines a specif		
REJE	ECT.							e generated by the local MP		
<b>"O</b>	"/:- ":kl-" "	· · · · · · · · · · · · · · · · · · ·		/:				o start the envelope transmi		·
	"(I.e., "IS able" or "l litted") is semantica	is capable") is correct and is ally wrong here.	intended. "May"	(i.e., is allowed or is						
10 01111	,									

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

C/ 1 SC **1.4.244c**  Page 6 of 103 9/17/2019 11:11:41 AM

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/ 1 SC 1.4.2	44d	P <b>23</b>	L <b>30</b>	# 462	C/ 1	SC	1.4.245a	P <b>23</b>	L <b>35</b>	# 112
hompson, Geoff		GraCaSI S.A	./Independent		Remein,	Duane		Futurewei T	echnologies, Inc.	
omment Type TR	Comment S	Status A			Comment	t Type	т	Comment Status A		
	ntly reads, every en e a "special marker			is marker at which distinctness need to	encoo envel 142	ding and ope qua (pg/line	d EQ would antum cont 107/34, 12	ement is true for a short tin d be 64.25 bits) "Within PC ains 66 bits." The stand-a- 4/17). In both cases the te	S, after the 64B/6 alone term "EQ"	6B encoding, an is only used 2x in Cl
	on text to actually b	e a distinguis	hing term that can	be understood.		the xMI				
esponse	Response S	U	0		Suggeste					
ACCEPT IN PRIN	,					ove the ains 66 b		"Within PCS, after the 64B	/66B encoding, a	n envelope quantum
every envelope (Er		er) and in plac	ce of every frame	preamble (Envelope	Response ACCI		PRINCIPL	Response Status <b>C</b> E.		
Continuation Head sourced the encap headers also inclu		e length of the	e data (in units of		highe	er sublay	/ers, MCR	, the definition would be ind S, but would ignore PCS. It	is better to exten	d the definition as
1 SC 1.4.2		P <b>23</b> GraCaSI S.A	L <b>33</b> /Independent	# 463		after 256		fter the 64B/66B encoding, ncoding, four envelope qua		
omment Type TR	Comment S				C/ 1	SC	1.4.245b	P <b>23</b>	L <b>38</b>	# 465
				within the MAC sub-	Thompso	on, Geof	f	GraCaSI S.	A./Independent	
layer and above th quantification (and	, ,			•	Comment	t Type	Е	Comment Status R	•	
uggestedRemedy			le fligher layers. T	his is not true.				d idea to make this term s ance at any other speed.	peed dependent s	o that the term will not
Rewrite so it is mo	re obvious that the	quantization o	only exists within the	ne RS and below.	Suggeste	dReme	dv			
esponse	Response S	tatus C				ge to bi	-			
ACCEPT IN PRIN	CIPLE.				Response	e		Response Status <b>C</b>		
	vation. MAC and MAC			quantization. The r 802.3) are aware of	REJE					
	us EPON generation	ons, the MAC	Control and MAC	Control Client were	25G/2	25G and	d 25G/10G	to schedule a mix of 25G a coexistence mode), the so I was specifically introduce	heduler needs to	have some common
>>>Control<<< sul	of data plus the laye	er-specific en In envelope qu	coding. Thus, at th uantum is equal to		transi direct But fo	mission tion, for or ONUs	time of 1 I ONUs trar s transmitti	EQ in downstream direction is mitting at 25Gb/s, the training at 10Gb/s, the transmiss to a 10Gb/s, the transmiss of the line researchese of the line transmiss.	n is exactly 1 EQT nsmission time of sion time of 1 EQ	. In the upstream 1 EQ is also 1 EQT. is 2.5 EQTs. In other

MCRS, an envelope quantum contains 72 bits (i.e., 64 bits of data and 8 bits of control). Within PCS, after the 64B/66B encoding, an envelope quantum contains 66 bits. words, EQT is a fixed interval, regardless of the line rate or bit times. It is correct that in some future EPON projects (which don't seem to end), the value of EQT may be different. We expect a future task force to deal with this by making this definition clause- or PON architecture-specific.

C/ 1 SC 1.4.245b Page 7 of 103 9/17/2019 11:11:41 AM

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C/ 1	SC 1.4.278	P <b>22</b>	L <b>31</b>	# 431	C/ 1	SC	1.5	P <b>23</b>	L <b>52</b>	# 306
Dawe, P	ers	Mellanox			Lynskey,	Eric		Broadcom		
Commen	t Type E	Comment Status A			Comment		Е	Comment Status A		bucket, CDF
		nts about one or multiple upst	ream bursts.		CDR	is alread	dy preser	nt in IEEE 802.3-2018.		
one o enve multi	ause 64 LLID. E or multiple upstreat lope allocations for	Each grant results in am bursts transmitted by the 0 or multiple LLIDs. The OLT co DUs, all having the same Star	onveys a grant to	the ONU using one or	Suggeste Remo Response ACCE	ove. e	dy	Response Status C		
	edRemedy				C/ 1	SC	15	P <b>23</b>	L <b>52</b>	# 434
to:					Dawe, Pi		1.5	Mellanox	LJZ	# 454
one o enve multi	or multiple upstreations for	each grant results in am bursts transmitted by the C or multiple LLIDs, the OLT cor DUs, all having the same Star een	nveys a grant to	the ONU using one or	Comment	t <i>Type</i> doesn't		Comment Status A		bucket, CDł
Respons	•	Response Status <b>C</b>			Chan	ge to clo	ck and o	data recovery		
ACC	EPT IN PRINCIPL	_E.			Response	9		Response Status C		
	proposed changes ted definition:	s would make the definition ev	ven more confusi	ng. Use the following		EPT IN F	PRINCIP 1t #306	LE.		
		P2MP protocols, a permissior			C/ 1	SC	1.5	P <b>23</b>	L <b>54</b>	# 70
		ts are issued by the OLT (ma lause 64 and Clause 77, a G/			Anslow, F	Pete		Ciena		
grant trans	is issued to a sing mitted by the ONI	Je LLID, with each grant resul J. In Clause 144, a grant inclune-to-one correspondence be	lting in one or mu udes envelope al	Itiple upstream bursts locations for multiple	Comment New a		E ations are	<i>Comment Status</i> <b>A</b> e usually presented in alphabeti	cal order	bucke
		nitted by that ONU.	U		Suggeste	dRemed	dy			
C/ 1	SC 1.5	P <b>23</b>	L <b>5</b> 1	# 69	Sort t	he new	abbrevia	tions in to alphabetical order		
Anslow,	Pete	Ciena			Response	Ð		Response Status C		
Commen		Comment Status A		bucket	ACCE	EPT.				
		ent in 1.5 Abbreviations in the	base standard.							
Suggeste	edRemedy									
Rem	ove "CDR clock d	ata recovery" from the list of r	new abbreviation	c						

Remove "CDR clock data recovery" from the list of new abbreviations

Response Response Status C

ACCEPT.

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

C/ 1 SC 1.5 Page 8 of 103 9/17/2019 11:11:41 AM

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C/ 1	SC 1.5	P <b>24</b>	L <b>9</b>	# 260		Cl 30	SC 30.5.1.1.	<b>2</b> P	27	L <b>2</b>	# 392
D'Ambros	sia, John	Futurewei, U.S	<ol><li>Subsidiary of</li></ol>	Huawei		Dawe, Pie	ers	Mel	lanox		
<i>Comment</i> Add a	<i>Type</i> <b>E</b> bbreviation MCR	Comment Status A			bucket	<i>Comment</i> Multip	••	Comment Statu			
00	<i>dRemedy</i> S - multi channel	reconciliation sublayer				S <i>uggested</i> Add w	dRemedy ords to distingui	sh them			
Response ACCE		Response Status C				Response ACCE	PT IN PRINCIPI	Response Statu	S C		
C/ 1	SC 1.5	P <b>24</b>	L10	# 71		Apply	the following cha	anges to MAU desc	iption, us	ing 25GBASE-P	QG as an example:
Anslow, F	Pete	Ciena				25GB	ASE-PQG-D2	One single (	node fibe	r 1x25G continu	ous transmission /
http:// "Phys	rding to: www.ieee802.org ical Layer" is "alv	Comment Status A g/3/WG_tools/editorial/requiren ways capped"	nents/words.htm	nl	bucket	25GB 1x250 25GB	ASE-PQG-D3 burst mode rec ASE-PQG-U2	eption, high power of	node fibe class, as node fibe	r, 1x25G continu specified in Clau r, 1x25G burst m	ous transmission / se 141 ode transmission /
Chan "PLID	dRemedy ge: ) physical layer IE ) Physical Layer I						ASE-PQG-U3 continuous rece SC <b>31A</b>	eption, high power of			ode transmission / e 141 # 109
Response	, ,	- Response Status <b>C</b>				Anslow, P	ete	Cie	na		
	EPT IN PRINCIPI	•				Comment	Type E	Comment Statu	s A		buck
Per co C/ <b>30</b> Laubach,	SC 30.3.5.1.	e capitalization on page 203/1 4 P26 Broadcom	1 L <b>38</b>	# 327		Std 80 The V 802.3	02.3 without char alue/Comment e without change.	nge. entry for GATE has I	been in pl	ace since the 20	998 version of IEEE 05 version of IEEE Std changes to be made.
Comment		Comment Status A				Suggested	dRemedy				-
		end of the line during original	editing. This is	needed to be		00		hown to these rows	of the tab	ole.	
	stent with Clause		0			Response	-	Response Statu	s C		
00	<i>dRemedy</i> he ";" to the end o	of the line.				ACCE	PT IN PRINCIPI	LE.	-		
Response ACCE		Response Status C				rows f	or REPORT, RE	USE and GATE (min GISTER_REQ, REC adding "(unchanged	GISTER,	and REGISTER_	

C/ 31A SC 31A

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 45 SC 45.2	.1 P29	L <b>20</b>	# 7 <u>2</u>	C/ <b>45</b>	SC 45.2.1.23	3a P30	L <b>5</b>	# 75
Anslow, Pete	Ciena			Anslow, Pe	te	Ciena		
Comment Type E	Comment Status A		bucket	Comment 7	ype E	Comment Status A		bucket
	d ellipsis characters in the middle sters 3.80, 3.81, and 3.82 should					f 45.2.1.23a.2 is Downstre e" entry for bit 1.29.15 in		coding, so this is what
SuggestedRemedy				Suggestedl	Remedy			
Move the rows for	h the two underlined ellipsis char registers 3.80, 3.81, and 3.82 to m ruling of Table 45-3 to the table	Table 45-176	lle of the table.	In the N encodir	ng"	t 1.29.15, change "DS_Dit	_	
Response ACCEPT.	Response Status C			"1 = Do	wnstream diffe	for bit 1.29.15, change " rential encoding enabled ential encoding disabled"	Oownstream differe	ntial encoding" to:
C/ 45 SC 45.2	.1 P29	L <b>20</b>	# 113	Response		Response Status C		
Remein, Duane	Futurewei Te	echnologies, Inc.		ACCEF	ΥТ.			
Comment Type E	Comment Status A	<b>C</b>	bucket	C/ 45	SC 45.2.1.23	Ba.1 P29	L37	# 114
Ellipses need not	be shown as added in Table 45-3	3 7th row.		Remein, D	Jane	Futurewe	i Technologies, Inc	
SuggestedRemedy				Comment 7		Comment Status A		bucket
remove underlinin	g on ellipses.				51	cally ordered high to low (a	at least that is how	
remove underlinin	g on ellipses. Response Status <b>C</b>				nitions are typic		at least that is how	
				Bit defi 45.2.1. Suggestedl	nitions are typic 13). Remedy	cally ordered high to low (a		they are defined in
remove underlinin Response	Response Status C	L 29	# 60	Bit defi 45.2.1. <i>Suggestedl</i> Swap s	nitions are typic 13). Remedy ub-clauses so t		eam Differential Er	they are defined in
remove underlinin Response ACCEPT. Cl 45 SC 45.2	Response Status C	L <b>29</b> Iting/ADL APL Gr	# 60	Bit defi 45.2.1. <i>Suggestedl</i> Swap s before	nitions are typic 13). Remedy ub-clauses so t	cally ordered high to low (a that 45.2.1.23a.2 Downstr	eam Differential Er	they are defined in
remove underlinin Response ACCEPT. Cl 45 SC 45.2 Zimmerman, George	Response Status C	-	# 60 , Aquantia, BMW, Cisco bucket	Bit defi 45.2.1. <i>Suggestedl</i> Swap s	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1	eam Differential Er	they are defined in
remove underlinin Response ACCEPT. CI 45 SC 45.2 Zimmerman, George Comment Type E	Response Status C .1 P29 CME Consu	lting/ADI, APL Gp	, Aquantia, BMW, Cisco bucket	Bit defi 45.2.1. Suggested Swap s before Response ACCEF	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b>	eam Differential Er .29.5:0).	they are defined in ncoding (1.29.15) comes
remove underlinin Response ACCEPT. Cl 45 SC 45.2 Zimmerman, George Comment Type E	Response Status C .1 P29 CME Consu Comment Status A	lting/ADI, APL Gp	, Aquantia, BMW, Cisco bucket	Bit defii 45.2.1. Suggested Swap s before Response ACCEF CI <b>45</b>	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM PT. SC <b>45.2.1.23</b>	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> 3a.1 P29	eam Differential Er	they are defined in
remove underlinin Response ACCEPT. Cl 45 SC 45.2 Zimmerman, George Comment Type E Editing instruction SuggestedRemedy change "as modifi	Response Status C .1 P29 CME Consu Comment Status A needs to include 802.3cg which ied by IEEE Std 802.3cb-2018 an	lting/ADI, APL Gp also modified Tab nd IEEE Std 802.3	, Aquantia, BMW, Cisco <i>bucket</i> ble 45-3. ccd-2018" to "as	Bit defii 45.2.1. Suggested Swap s before Response ACCEF C/ 45 Anslow, Pe	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 Pt PT. SC <b>45.2.1.23</b> te	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> <b>Ba.1</b> <i>P</i> <b>29</b> Ciena	eam Differential Er .29.5:0).	they are defined in ncoding (1.29.15) comes
remove underlinin Response ACCEPT. Cl 45 SC 45.2 Zimmerman, George Comment Type E Editing instruction SuggestedRemedy change "as modifi	Response Status C .1 P29 CME Consu Comment Status A needs to include 802.3cg which ied by IEEE Std 802.3cb-2018 an Std 802.3cb-2018, IEE Std 802.3	lting/ADI, APL Gp also modified Tab nd IEEE Std 802.3	, Aquantia, BMW, Cisco <i>bucket</i> ble 45-3. ccd-2018" to "as	Bit defii 45.2.1. Suggested Swap s before Response ACCEF CI 45 Anslow, Pe Comment 1	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM PT. SC <b>45.2.1.23</b> te SC <b>45.2.1.23</b>	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> <b>3a.1</b> <i>P</i> <b>29</b> Ciena <i>Comment Status</i> <b>A</b>	eam Differential Er .29.5:0). <i>L</i> <b>37</b>	they are defined in ncoding (1.29.15) comes # 73 bucket
remove underlinin Response ACCEPT. CI 45 SC 45.2 Zimmerman, George Comment Type E Editing instruction SuggestedRemedy change "as modifi modified by IEEE Response	Response Status C .1 P29 CME Consu Comment Status A needs to include 802.3cg which ied by IEEE Std 802.3cb-2018 an	lting/ADI, APL Gp also modified Tab nd IEEE Std 802.3	, Aquantia, BMW, Cisco <i>bucket</i> ble 45-3. ccd-2018" to "as	Bit defin 45.2.1. Suggested Swap s before Response ACCEF CI 45 Anslow, Pe Comment 7 The sul	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM PT. SC 45.2.1.23 te Sype E poclauses either	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> <b>Ba.1</b> <i>P</i> <b>29</b> Ciena	eam Differential Er .29.5:0). <i>L</i> <b>37</b>	they are defined in ncoding (1.29.15) comes # 73 bucket
remove underlinin Response ACCEPT. Cl 45 SC 45.2 Zimmerman, George Comment Type E Editing instruction SuggestedRemedy change "as modifi modified by IEEE	Response Status C .1 P29 CME Consu Comment Status A needs to include 802.3cg which ied by IEEE Std 802.3cb-2018 an Std 802.3cb-2018, IEE Std 802.3	lting/ADI, APL Gp also modified Tab nd IEEE Std 802.3	, Aquantia, BMW, Cisco <i>bucket</i> ble 45-3. ccd-2018" to "as	Bit defin 45.2.1. Suggested Swap s before Response ACCEF CI 45 Anslow, Pe Comment 7 The sul Suggested Swap th	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM PT. SC <b>45.2.1.23</b> te SC <b>45.2.1.23</b> te SC <b>45.2.1.23</b> te Remedy	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> <b>Ba.1</b> <i>P</i> <b>29</b> Ciena <i>Comment Status</i> <b>A</b> side of 45.2.1.23a define definitions so that bit 1.29	eam Differential Er .29.5:0). <i>L</i> <b>37</b> the bits in order of	they are defined in ncoding (1.29.15) comes # 7 <u>3</u> <i>bucket</i> largest to smallest.
remove underlinin Response ACCEPT. CI 45 SC 45.2 Zimmerman, George Comment Type E Editing instruction SuggestedRemedy change "as modifi modified by IEEE Response	Response Status C .1 P29 CME Consu Comment Status A needs to include 802.3cg which ied by IEEE Std 802.3cb-2018 an Std 802.3cb-2018, IEE Std 802.3	lting/ADI, APL Gp also modified Tab nd IEEE Std 802.3	, Aquantia, BMW, Cisco <i>bucket</i> ble 45-3. ccd-2018" to "as	Bit defin 45.2.1. Suggested Swap s before Response ACCEF CI 45 Anslow, Pe Comment 7 The sul Suggested Swap th	hitions are typic 13). Remedy ub-clauses so t 45.2.1.23a.1 PM PT. SC 45.2.1.23 te SC 45.2.1.23 te SC 45.2.1.23 te SC 45.2.1.23 te SC 45.2.1.23 te SC 45.2.1.23	cally ordered high to low (a that 45.2.1.23a.2 Downstr MA/PMD type selection (1 <i>Response Status</i> <b>C</b> <b>Ba.1</b> <i>P</i> <b>29</b> Ciena <i>Comment Status</i> <b>A</b> side of 45.2.1.23a define definitions so that bit 1.29	eam Differential Er .29.5:0). <i>L</i> <b>37</b> the bits in order of	they are defined in ncoding (1.29.15) comes # 73 bucket largest to smallest.

C/ **45** SC **45.2.1.23a.1** 

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C/ 45	SC 45.2.1.23a.1	P <b>29</b>	L <b>41</b>	# 16	CI 45	SC 45.2.1.1	34a	P <b>31</b>	L10	# 393
Hajducze	nia, Marek	Charter Com	munications		Dawe, Pi	ers		Mellanox		
Comment	Type ER Comr	ment Status A			Comment	tType E	Comment	Status R		
New "	shall" statements were ad	ded, but updates to	PICS are missing	I	Table	e title wraps too s	short			
Suggeste	dRemedy				Suggeste	dRemedy				
Upda	tes PICs per hajduczenia_	3ca_1_0719.pdf			Make	the text box for	table title wider			
Response	e Respo	onse Status <b>C</b>			Response	9	Response S	Status C		
ACCE	EPT.				REJE	CT.				
CI 45	SC 45.2.1.23a.2	P <b>29</b>	L <b>45</b>	# 74		n attempting to fi orced to be this			e, 2-3 characters f	low into line 2. Title
Anslow, F		Ciena			0.45	00 15 0 1 1	<u> </u>	Det		// <b></b>
Comment	<i>//··</i> –	ment Status A		bucket	Cl <b>45</b>	SC 45.2.1.1	34a	P <b>31</b>	L15	# 76
	title of 45.2.1.23a.2 "Down ential encoding" (lower cas		Encoding" should	be "Downstream	Anslow, F			Ciena		
	dRemedy				Comment	51	Comment			
In the	title of 45.2.1.23a.2 changential encoding"	ge: "Downstream Di	fferential Encodin	g" to: "Downstream	conta	e 45-103a contain ining PMA/PMD PMA/PMD is able	"ability" bits use	e the text:	of the other regis	sters in Clause 45
Response ACCE		onse Status C			The to used	for the other PM	03a for the PM/ A/PMD "ability"	A/PMD "ability' bits in Clause	" bits should be c 45	onsistent with that
CI 45	SC 45.2.1.23a.2	P <b>29</b>	L <b>50</b>	# 115		o perform as a p				whether a device is
Remein, I	Duane	Futurewei Te	chnologies, Inc.		Suggeste	•		51		
<i>Comment</i> "TX P	<i>Type</i> <b>E</b> Comm MA" and "RX PMA" are po	ment Status <b>A</b> porly defined.		bucket	the fo		0	·		/A/PMD "ability" bits to
Suggeste	dRemedy					MA/PMD is not a				
Chan					Response	9	Response S	Status C		
	MA" to "transmit PMA" and PMA" to "receive PMA"	d			ACCE	EPT.	-			
Response	e Respo	onse Status C								
ACCE	EPT.									

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

C/ **45** SC **45.2.1.134a** 

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C/ 45 SC 45.2.1.134a	P <b>31</b>	L <b>54</b>	# 77	C/ <b>45</b>	SC 45.2	1.18aa	P <b>33</b>	L <b>36</b>	# 472
Anslow, Pete	Ciena			Brandt, D	avid		Rockwell Aut	tomation	
When tables split across p	Comment Status <b>A</b> ages, the bottom ruling of	f the table on the f		e Comment Missp		Corr	nment Status D		wrong-ballc
"very thin" SuggestedRemedy				Suggeste Chan	<i>dRemedy</i> ge: "abilitiy",	To: "ability"			
Make the bottom ruling "ve Table 45-103a at the foot of Table 45-217a at the foot of Table 141-7 at the foot of Table 142-5 at the foot of	of page 31 and page 32 of page 43 page 59			Proposed REJE	Response CT.	Resp	oonse Status Z	er.	
Table 144-4 at the foot of	page 201			Ne		1. 11 (1. J. C	dia tha death Oirean		and a start to the
Response F ACCEPT IN PRINCIPLE.	Response Status C						d in the draft. Given t st P803.2ca?	hat 45.2.1.18 do	es not exist in the
				C/ 45	SC 45.2	1.18ab	P <b>33</b>	L <b>43</b>	# 473
45 SC 45.2.1.134a.		L16	# 1	Brandt, D	avid		Rockwell Aut	tomation	
ajduczenia, Marek	Charter Comr	munications		Comment	Type E	Corr	nment Status D		wrong-ball
omment Type E	Comment Status A		bu		- 111-m - m				
51			DU	<i>icket</i> Missp	elling				
Make sure that the PMD n		lines.		IVII55	U				
Make sure that the PMD n		lines.	, Su	Suggeste	dRemedy	To: "ability"			
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134	ame is not broken across 5.2.1.134a.10, 45.2.1.13 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45	4a.11, 45.2.1.134a .2.1.134a.23,45.2.	a.12, 45.2.1.134a.1 1.134a.24,	Suggeste Chan	dRemedy ge: "abilitiy", Response	-	oonse Status Z		
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32	4a.11, 45.2.1.134a .2.1.134a.23,45.2.	a.12, 45.2.1.134a.1 1.134a.24,	Suggeste Chan 13, Proposed REJE	dRemedy ge: "abilitiy", Response CT.	Resp	oonse Status <b>Z</b> WN by the comment	er.	
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134	ame is not broken across 5.2.1.134a.10, 45.2.1.13 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45	4a.11, 45.2.1.134a .2.1.134a.23,45.2.	a.12, 45.2.1.134a.1 1.134a.24,	Suggeste Chan 13, Proposed REJE This o No su	dRemedy ge: "abilitiy", <i>Response</i> CT. comment was ch spelling "	Resp s WITHDRA	WN by the comment d in the draft. Given t		es not exist in the
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 Response ACCEPT.	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b>	4a.11, 45.2.1.134a .2.1.134a.23,45.2.	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29,	Suggeste Chan 13, Proposed REJE This o No su	dRemedy ge: "abilitiy", <i>Response</i> CT. comment was ch spelling "	Resp s WITHDRA	WN by the comment		es not exist in the
Make sure that the PMD n uggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 esponse ACCEPT. 45 SC 45.2.1.134a.	ame is not broken across 5.2.1.134a.10, 45.2.1.134a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b>	4a.11, 45.2.1.134a .2.1.134a.23,45.2 .2.1.134a.28, 45.2 .2.1.134a.28	a.12, 45.2.1.134a.1 1.134a.24,	Suggeste Chan 13, Proposed REJE This o No su	dRemedy ge: "abilitiy", <i>Response</i> CT. comment was ch spelling "	Resp WITHDRA abilitiy" found ment again	WN by the comment d in the draft. Given t		es not exist in the # [ <u>78</u>
Make sure that the PMD n         SuggestedRemedy         Applies to 45.2.1.134a.9, 4         45.2.1.134a.14, 45.2.1.134         45.2.1.134a.25, 45.2.1.134         45.2.1.134a.30, 45.2.1.134         20 Seponse         ACCEPT.         C/ 45       SC 45.2.1.134a.4         Remein, Duane	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status C P34 Futurewei Ter	4a.11, 45.2.1.134a .2.1.134a.23,45.2 .2.1.134a.28, 45.2	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u>	I3, Proposed This of Chan REJE This of C/ 45 Anslow F	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC <b>45.2</b> .	Resp WITHDRA abilitiy" found ment again	WN by the comment d in the draft. Given t st P803.2ca?	hat 45.2.1.18 do	
Make sure that the PMD n         SuggestedRemedy         Applies to 45.2.1.134a.9, 4         45.2.1.134a.14, 45.2.1.134         45.2.1.134a.25, 45.2.1.134         45.2.1.134a.30, 45.2.1.134         Response       #         ACCEPT.         Cl 45       SC 45.2.1.134a.1         Remein, Duane         Comment Type       E	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status C P P34 Futurewei Ter Comment Status A	4a.11, 45.2.1.134a .2.1.134a.23,45.2 .2.1.134a.28, 45.2 .2.1.134a.28	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u>	I3, C/ 45	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC <b>45.2</b> .	Resp s WITHDRAN abilitiy" found ament agains 3	WN by the comment d in the draft. Given t st P803.2ca? P <b>38</b>	hat 45.2.1.18 do	
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 Response ACCEPT.	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b> <b>P34</b> Futurewei Tec Comment Status <b>A</b> he line. at so that the line is not b	4a.11, 45.2.1.134a .2.1.134a.23,45.2 .2.1.134a.28, 45.2 <i>L</i> 16 chnologies, Inc.	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u> bu	Suggeste Chan 13, Proposed REJE This o draft C/ 45 ucket Anslow, F Comment In the be a o This i	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC 45.2. Pete Type E new names comma in "Pl	Resp s WITHDRAN abilitiy" found ament agains <b>3</b> <i>Corr</i> for registers R10G-EPON	WN by the comment d in the draft. Given t st P803.2ca? P <b>38</b> Ciena nment Status <b>A</b>	hat 45.2.1.18 doi	# <u>78</u>
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 Response ACCEPT. ACCEPT. ACCEPT. ACCEPT. C 45 SC 45.2.1.134a. Remein, Duane Comment Type E PMA/PMD name crosses is SuggestedRemedy Change the character form following locations (pg/line	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b> <b>P34</b> Futurewei Ter Comment Status <b>A</b> he line. at so that the line is not b b: 34/16, 34/22, 3428, 34/	4a.11, 45.2.1.134 2.1.134a.23,45.2 2.1.134a.28, 45.2 <i>L</i> 16 chnologies, Inc. proken by the PME 34, 34/40, 34/40, 34/46, 3	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u> bu D name at the 34/52, 35/4, 35/46,	Suggeste Chan 13, Proposed REJE This of C/ 45 Ucket Anslow, F Comment In the be a of This i	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC 45.2. Pete Type E new names comma in "Pl s shown corr	Resp s WITHDRAN abilitiy" found ament agains <b>3</b> <i>Corr</i> for registers R10G-EPON	WN by the comment d in the draft. Given t st P803.2ca? P <b>38</b> Ciena mment Status <b>A</b> 3.76, 3.77 and 3.78, I, and Nx25GEPON"	hat 45.2.1.18 doi	# 78
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 Response ACCEPT. C/ 45 SC 45.2.1.134a. Remein, Duane Comment Type E PMA/PMD name crosses to SuggestedRemedy Change the character form following locations (pg/line 35/52, 36/4, 36/10, 36/16, others found.	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b> <b>P34</b> Futurewei Ter Comment Status <b>A</b> he line. at so that the line is not b b: 34/16, 34/22, 3428, 34/ 36/22, 36/28, 36/34, 36/44	4a.11, 45.2.1.134 2.1.134a.23,45.2 2.1.134a.28, 45.2 <i>L</i> 16 chnologies, Inc. proken by the PME 34, 34/40, 34/40, 34/46, 3	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u> bu D name at the 34/52, 35/4, 35/46,	Suggeste Chan I3, Proposed REJE This of Cl 45 Ucket Anslow, F Comment In the be a of This i Suggeste In the	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC 45.2. Pete Type E new names comma in "Pl s shown corr dRemedy new names	Resp WITHDRAN abilitiy" found ament again: <b>3</b> <i>Corr</i> for registers R10G-EPON ectly in 45.2. for registers	WN by the comment d in the draft. Given t st P803.2ca? <b>P38</b> Ciena <i>ment Status</i> <b>A</b> 3.76, 3.77 and 3.78, I, and Nx25GEPON" 3.41 and 45.2.3.42 3.76, 3.77 and 3.78,	hat 45.2.1.18 do <i>L</i> <b>12</b> 3.79 in Table 45 3.79 in Table 45	# 7 <u>8</u> bucke
Make sure that the PMD n SuggestedRemedy Applies to 45.2.1.134a.9, 4 45.2.1.134a.14, 45.2.1.134 45.2.1.134a.25, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 45.2.1.134a.30, 45.2.1.134 Response ACCEPT. C/ 45 SC 45.2.1.134a. Remein, Duane Comment Type E PMA/PMD name crosses to SuggestedRemedy Change the character form following locations (pg/line 35/52, 36/4, 36/10, 36/16, others found.	ame is not broken across 5.2.1.134a.10, 45.2.1.134 a.15, 45.2.1.134a.16, 45 a.26, 45.2.1.134a.27, 45 a.31, 45.2.1.134a.32 Response Status <b>C</b> <b>P34</b> Futurewei Ter Comment Status <b>A</b> he line. at so that the line is not b b: 34/16, 34/22, 3428, 34/	4a.11, 45.2.1.134 2.1.134a.23,45.2 2.1.134a.28, 45.2 <i>L</i> 16 chnologies, Inc. proken by the PME 34, 34/40, 34/40, 34/46, 3	a.12, 45.2.1.134a.1 1.134a.24, 2.1.134a.29, # <u>116</u> bu D name at the 34/52, 35/4, 35/46,	Suggeste Chan I3, Proposed REJE This of Cl 45 Ucket Anslow, F Comment In the be a of This i Suggeste In the	dRemedy ge: "abilitiy", Response CT. comment was ch spelling " is this a con SC 45.2. Pete Type E new names comma in "Pl s shown corr dRemedy new names na in "PR100	Resp s WITHDRAN abilitiy" found ament agains <b>3</b> <i>Com</i> for registers R10G-EPON ectly in 45.2. for registers -EPON, and	WN by the comment d in the draft. Given t st P803.2ca? P38 Ciena ment Status A 3.76, 3.77 and 3.78, I, and Nx25GEPON" .3.41 and 45.2.3.42	hat 45.2.1.18 do <i>L</i> <b>12</b> 3.79 in Table 45 3.79 in Table 45	# 7 <u>8</u> bucke

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 45
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 45.
 9/17/2019 11:11:41 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 45.
 9/17/2019 11:11:41 AM

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	45.2.3	P <b>38</b>	L17	# 79		C/ 45	SC 45.2.3.6.1	P <b>39</b>	L <b>41</b>	# 80
Anslow, Pete		Ciena				Anslow, Pete		Ciena		
Comment Type	E Comme	nt Status A			bucket	Comment Typ	e T	Comment Status A		45.2.3.6.
through 3.134 SuggestedReme In table 45-17		igh 3.135" to "3.8	3 through 3.134"	C C		3.8.7:0, ai PCS type: "The PCS ignore wri	nd 3.9.5:0. A F s it has not adv type abilities of tes to the PCS	he PCS type abilities of the PCS shall ignore writes to t vertised in the PCS status of the PCS are advertised bype selection bits that se or or the PCS status 3 reg	he PCS type select 2 register." is not in bits 3.8.9:0, and elect PCS types it	ction bits that select correct. It should read: d 3.9.7:0. A PCS shall
Response	Respons	e Status <b>C</b>	-			SuggestedRe	0			
ACCEPT.	,					00		third sentence of 45.2.3.6	1 to: "The PCS ty	vpe abilities of the PCS
C/ <b>45</b> SC Zimmerman, Geo	<b>45.2.3</b>	P <b>39</b> CME Consult	L <b>3</b> ting/ADI, APL Gp,	# 61 Aquantia, BMW	Cisco	are advert PCS shall advertised	tised in bits 3.8 ignore writes	3.9 <u>:0</u> <s>, 3.8.7:0,&lt; to the PCS type selection tatus 2 register<u> or the</u></s>	and 3.9. <s>1 bits that select PC</s>	<u>7</u> :0. A CS types it has not
Comment Type	•	nt Status A	-		bucket			art and end of underline fo art and end of strikethroug		
SuggestedReme		-				Response		Response Status C		
change "as n	nodified by IEEE Std 8 EEE Std 802.3cb-201					ACCEPT.				
Response		e Status <b>C</b>		, see ,		C/ 45	SC 45.2.3.8	P <b>40</b>	L <b>8</b>	# 81
ACCEPT.						Anslow, Pete		Ciena		
	45 0 0 0 4	200	1.40	" 4.7		Comment Typ		Comment Status A		bucke
	45.2.3.6.1	P <b>39</b>	L <b>40</b>	# 117		In Table 4	5-182, row for	bit 3.9.7, "apable" should	be "capable"	
	0		chnologies, Inc.	45	0.0.0.4	SuggestedRe	2			
		nt Status A		45.	2.3.6.1		5-182, row for	bit 3.9.7, change "apable"	to "capable"	
Remein, Duane Comment Type		to all advartice P						Response Status <b>C</b>		
Comment Type Register bits	3.9.0 to 3.9.7 appear	to all advertise P	CS type abilities.			Response ACCEPT.				
Comment Type Register bits SuggestedReme Change: "bits 3.8.9, 3. "bits 3.8.9, 3.	3.9.0 to 3.9.7 appear	to	CS type abilities.			ACCEPT.	SC <b>45.2.3.43</b>	P <b>41</b> Ciena	L <b>39</b>	# 84
Comment Type Register bits SuggestedRement Change: "bits 3.8.9, 3. "bits 3.8.9, 3. Note the "1" in Response	3.9.0 to 3.9.7 appear dy 8.7:0, and 3.9.15:0." 8.7:0, and 3.9.17:0." n 3.9.1x is in strike-ou <i>Respons</i>	to	CS type abilities.			ACCEPT. Cl 45 S Anslow, Pete Comment Typ	SC <b>45.2.3.43</b> De E	P <b>41</b>	L39	# 84 bucke
Comment Type Register bits SuggestedReme Change: "bits 3.8.9, 3. "bits 3.8.9, 3.	3.9.0 to 3.9.7 appear dy 8.7:0, and 3.9.15:0." 8.7:0, and 3.9.17:0." n 3.9.1x is in strike-ou <i>Respons</i> PRINCIPLE.	to ut text.	CS type abilities.			ACCEPT. <i>CI</i> <b>45</b> Anslow, Peter <i>Comment Type</i> "update" is <i>SuggestedRep</i>	SC <b>45.2.3.43</b> The <b>E</b> Is not a valid en The the the the the the the the the the t	P <b>41</b> Ciena Comment Status A		

C/ **45** SC **45.2.3.43** 

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CI <b>45</b>	SC 45.2.3.43	P <b>41</b>	L <b>41</b>	# 85	C/ <b>45</b>	SC	45.2.3.43	P <b>42</b>	L <b>2</b>	# 86
Anslow, Pet	te	Ciena			Anslow, F	ete		Ciena		
Comment Ty	ype E	Comment Status A		bucket	Comment	Туре	Е	Comment Status A		buck
interval)	is not reflected	wn in 45.2.3.43 to the name in Table 45-176. ent proposes to move the ro	Ū	, U		alent iss	sues in 45.2	prest green. "142.3.5.6" sho 2.3.44.1 and 45.2.3.45	uld be a cross-	reference.
Table 4	5-176 where it be	elongs.		-	00		,	v character tag "External" to		
	oving the row for	register 3.80 from Table 45 in the register name using u			"76.3. "76.3. "76.3.	3.4" in 4 3.4" in 4 3.4" in 4	45.2.3.43 45.2.3.44.1 45.2.3.45			
Response ACCEP	Т.	Response Status C			"142.3 "142.3	3.5.6" in 3.5.2" in	-reference: 45.2.3.43 45.2.3.44. 45.2.3.45	1		
CI <b>45</b>	SC 45.2.3.43	P <b>41</b>	L <b>44</b>	# 62	Response	•		Response Status <b>C</b>		
Zimmerman	n, George	CME Consult	ng/ADI, APL G	o, Aquantia, BMW, Cisco	ACCE	PT.				
Comment Ty The font		Comment Status A nd Nx25G EPON" is smaller	than the rest of	bucket	C/ <b>45</b>	SC	45.2.3.43	P <b>42</b>	L <b>5</b>	# 328
SuggestedR fix font c	Remedy of "and", and "an	Nx25G EPON"			Laubach, <i>Comment</i>	Туре	E	Broadcom Comment Status A		buck
Response ACCEP	Т.	Response Status C			Suggeste	dRemed	•		I''	
C/ 45	SC 45.2.3.43	P <b>41</b>	L <b>44</b>	# 492			idenine to li	nclude the last letter in "inte	var	
Brandt, Dav Comment Ty		Rockwell Auto	omation	post-deadline: bucket	Response ACCE			Response Status C		
	stent font size.				C/ 45	SC	45.2.3.44	P <b>42</b>	L <b>25</b>	# 87
SuggestedR	Remedv				Anslow, F	ete		Ciena		
00	onts the same siz	e.			Comment	Туре	Е	Comment Status A		buck
Response	_	Response Status C			,	Nx25G d of bef		s been inserted after "BER"	in the first sen	tence of 45.2.3.44
ACCEP	1.				Suggeste	dRemed	dy			
							, -	and Nx25G EPON" before "I BBASE-PRX, and Nx25G E		
					Response ACCE			Response Status C		

C/ **45** SC **45.2.3.44** 

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	•						0 1			
CI 45	SC 45.2.3.44.1	P <b>42</b>	L <b>49</b>	# 88	C/ <b>45</b>	SC	45.2.3.45a	P <b>43</b>	L <b>47</b>	# 118
Anslow, F	Pete	Ciena			Remein,	Duane		Futurewei Tec	hnologies, Inc.	
Comment	t Type E	Comment Status A		bucket	Commen	t Type	TR	Comment Status A		Table 45-217a
In the	e first sentence of 4	5.2.3.44.1, there is a spurio	us " BER" after	"10/1GBASE-PRX"	Table	e 217a is	missing a d	definition for register bits 3.8	33.6:15	
Suggeste	edRemedy				Suggeste	dRemea	ly			
In the	e first sentence of 4	5.2.3.44.1, delete " BER" af	ter "10/1GBASE	-PRX"			w of table:			
Response	e	Response Status <b>C</b>			3.83.	15:6   Re	eserved   Va	alue always 0   RO		
ACCE	EPT.				Respons ACC			Response Status C		
CI <b>45</b>	SC 45.2.3.44.2	2 P <b>43</b>	L <b>4</b>	# 89	C/ <b>45</b>	SC	45.2.3.45a	P <b>43</b>	L <b>47</b>	# 448
Anslow, F	Pete	Ciena			Nicholl, S		-J.2.JJu	Xilinx		11 110
Comment	t Type E	Comment Status A		bucket	Commen		Е	Comment Status R		
		5.2.3.44.2, there is a spurio		"10/1GBASE-PRX" and					040	and the theory and and and
" PCS	S" is missing after t	he insertion of ", and Nx25G	BEPON"					dy found throughout 802.3-2 a more unique abbreviation		
Suggeste	edRemedy							neral readability and search		
	e first sentence of 4 the insertion of ", a	5.2.3.44.1, delete " BER" af	ter "10/1GBASE	-PRX" and add " PCS"	Suggeste		•	·		
Response	e	Response Status C						1 throughout the document. other unique acronymn wo		, SP3, etc. SPTNx is
ACCE	EPT.				Respons	е		Response Status C		
Cl <b>45</b>	SC 45.2.3.45a	P <b>43</b>	L <b>43</b>	# 307	REJE	ECT.				
Lynskey,	Eric	Broadcom			Term	is are de	fined consis	stently. There are many othe	er examples of a	overlaping acronyms
Comment	t Type <b>T</b>	Comment Status A						ion, when read within the rig		jj
variet	ty of ways that data	257-bit sync pattern values is stored in a register when ad in lower numbered register	it is greater tha	n 16-bits. Sometimes				P1, SP2, and SP3 are alread in C73 and Skew Points in		esent two very different
oppos	site is true (Table 4	5-202). The order of the by	tes should be st	ated in this table.	C/ 45	SC	45.2.3.45a	P <b>43</b>	L <b>47</b>	# 119
00	edRemedy				Remein,	Duane		Futurewei Tec	hnologies, Inc.	
		, change to "The lower 256 l 8.99.15." Similar for SP2 an			Commen	t Type	Е	Comment Status A	-	bucket
		o the text descriptions that f						es are typically listed from I	nigh bit to low b	it and low register to
Response	2	Response Status C			high	register.			-	-
ACCE					Suggeste	dRemea	ly			
					Deer	-l			- 15 017- in de	a a a a alta a la it a a al a a

Reorder row for register bits 3.83.5 to 3.83.0 in Table 45-217a in descending bit order.

Response Response Status C

ACCEPT.

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

C/ **45** SC **45.2.3.45**a

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C/45 SC	45.2.3.45a	P <b>43</b>	L <b>47</b>	# 90	C/ <b>45</b>	SC 4	5.2.3.80.2	P <b>49</b>	L <b>31</b>	# 474
nslow, Pete		Ciena			Brandt, Da	avid		Rockwell A	utomation	
	ning bit allocations	nent Status <b>A</b> in Clause 45 alwa	ys have bit 15 at	<i>Table 45-217a</i> he top and descending	<i>Comment</i> Duplic	<i>Type</i> ate text	E	Comment Status D		wrong-ballo
	s within a register a	are shown as x.x.a: allocated are show		er than b	Suggested Chang			detecting", To: "is detecti	ng"	
uggestedRemed	<i>y</i>				Proposed	Respons	se	Response Status Z		
3.83.15:6   Re	rder of rows in Tab served   Value alw	le 45-217a and the /ays 0   RO	bit designations	as follows:	REJE(					
3.83.5 3.83.4					I NIS C	omment	was with	IDRAWN by the comme	nter.	
3.83.3 3.83.2						not locat st P803.2		that 45.2.3.80.2 does no	t exist in the draft	- is this a comment
3.83.1 3.83.0					C/ 45	SC 4	15.2.3.80.4	P <b>49</b>	L <b>47</b>	# 475
3.99.15 throug	gh 3.84.0				Brandt, Da	avid		Rockwell A	utomation	
3.100.15:0 3.116.15 throu	iah 3 101 0				Comment	Туре	Е	Comment Status D		wrong-ballo
3.117.15:0	.g				Descri	ption of	non-latche	d source is wrong.		0
3.133.15 throu 3.134.15:0	ugh 3.118.0				Suggested	Remedu	v	-		
Response	Respo	nse Status C			Chang	je: "PC	CS high BE	R status bit (3.2324.9)." tatus bit (3.2324.9)."		
ACCEPT.					Proposed	Respons	se	Response Status Z		
3 45 SC	45.2.3.45a	P <b>44</b>	L10	# 120	REJE	CT.				
Remein, Duane		Futurewei Te	echnologies, Inc.		This o	omment		IDRAWN by the comme	otor	
comment Type	TR Com	nent Status A			1113 0	ommoni	was with			
	e bits are in "3.1x	k.0:15"				not locat st P803.2		that 45.2.3.80.4 does no	t exist in the draft	- is this a comment
uggestedRemed In 45.2.3.45a.					C/ 45	SC 4	5.2.3.8aa	P <b>40</b>	L <b>25</b>	# 82
	3.100.15:0 (4x to	tal)			Anslow, P	ete		Ciena		
	3.117.15:0 (4x tot	,			Comment		Е	Comment Status A		bucke
	3.134.15:0 (3x tot	,						or 45.2.3.8aa through 45	5.2.3.11ad should	
Response	Respo	nse Status C						iting instruction.		
ACCEPT.					Suggested	Remedy	V			
Hardly a TR c	omment material							bering for 45.2.3.8aa thr iting instruction.	ough 45.2.3.11ad	to 45.2.3.8.aa through
					Response			Response Status C		
					ACCE	пт				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 45
 Page 16 of 103

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 45
 9/17/2019 11:11:42 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 45
 9/17/2019 11:11:42 AM

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 45 SC 45.2.	3.8aa P40	L <b>28</b>	# 83	Cl 56	SC 56.1	P <b>47</b>	L <b>3</b>	# 400
Anslow, Pete	Ciena			Dawe, Pie	rs	Mellanox		
Comment Type E	Comment Status A		bucket	Comment	Туре Е	Comment Status A		
	aragraph "the 25GBASE-PQ F	PCS type" should be	the 25/25GBASE-PQ	Rogue	e capitals			
PCS type"				Suggestea	Remedy			
SuggestedRemedy	aragraph abanga "the 250PA					per nouns, change "OLT Contro		
PCS type"	aragraph change "the 25GBAS	SE-PQ PCS type it	Ine 25/25GBASE-PQ		•	nd "OLT data plane" and simila	arly for ONU. Se	everal occurrences.
Response	Response Status <b>C</b>			Response		Response Status C		
ACCEPT.	•			ACCE	PT IN PRINCIF	ΊLΕ.		
00 50 4	0.47		" 0.	See co	omment #399			
C/ 56 SC 56.1	P <b>47</b>	L1	# 91	C/ 56	SC 56.1	P <b>47</b>	L <b>3</b>	# 399
Anslow, Pete	Ciena		h sector (	Dawe, Pie	rs	Mellanox		
Comment Type E	Comment Status A o not have a border round then	2	bucket	Comment	Туре Т	Comment Status A		
6				Undefi	ined terms "Cor	ntrol Plane", "Data Plane"		
SuggestedRemedy Remove the borde	r from Eiguro EG Eo			Suggestea	Remedy			
	0			Explai	n			
Response ACCEPT.	Response Status C			Response		Response Status <b>C</b>		
ACCEPT.				ACCE	PT IN PRINCIP	PLE.		
C/ 56 SC 56.1	P <b>47</b>	L1	# 395	Change	a all instances	of "Control Diano" to		
Dawe, Piers	Mellanox					of "Control Plane" to ", and "Data Plane" to "MAC C	lients"	
Comment Type E	Comment Status A		bucket	C/ 56	SC 56.1.2	P46	L <b>32</b>	# 394
	Is Style Manual, there should I	pe no borders arour	d the graphic. And, it				L <b>32</b>	# 394
doesn't match figs	50-2 10 5.			Dawe, Pie Comment		Mellanox Comment Status A		bucke
SuggestedRemedy	box round the figure and its tit				<i>rype</i> <b>E</b> with the nomina			DUCK
	•	ie.				I MAC Uala		
Response	Response Status C			Suggested		MAC data (several places)		
ACCEPT.						· · · ·		
				Response		Response Status C		
				ACCE	P1.			

C/ 56 SC 56.1.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

56 SC 56.1.2 P46 L38 # 378	C/ 56 SC 56.1.2 P47 L1 # 283
we, Piers Mellanox	Wienckowski, Natalie General Motors
mment Type TR Comment Status R	Comment Type E Comment Status A but
This PHY sensibly keeps the 25.78125 GBd line rate but uses stronger FEC with 20% (Fig 142-5) or 1-1/0.848 = 17.9% (142.2.4.2) overhead. Even after reclaiming about 3% by 257b recoding, that's around 21.4 Gb/s MAC rate, which is too far from 25 to say "nominal MAC data rate of 25 Gb/s".	Why is there a box around Figure 56-5a? There is not a box around the other Clause 56 Figures and this is not they style found in other Clauses. SuggestedRemedy
ggestedRemedy	Remove box around Figure 56-5a.
Giving the PHY types names with 25G in them is fair, because that represents the technology used - but this part of the draft text is misleading.	Response Response Status C ACCEPT.
In this paragraph, change "25 Gb/s" to "21.4 Gb/s" and "50 Gb/2" to "42.8 Gb/s".	C/ 56 SC 56.1.2 P47 L19 # 397
sponse Response Status U	Dawe, Piers Mellanox
REJECT.	Comment Type T Comment Status A
The nominal (how quickly MAC transmits bits, i.e., what the resulting bit time is) MAC rate	"PCS channel" is new, may need more introduction.
is correct in here, the effective MAC rate (how many bits it can effectively transmit within a	SuggestedRemedy
second) is lower and affected by FEC overhead, just like any other PHY that uses FEC and	Are there two independent, parallel PCSs or are they linked (how)?
PCS encoding. MAC does not always transmit data, but when it does, it transmits it at 25Gb/s	Response Response Status C
	ACCEPT IN PRINCIPLE.
56         SC 56.1.2         P46         L52         # 396	
we, Piers Mellanox	Change "PCS channel" to "channel" Change "PCS and PMA channel" to "PMA channel"
mment Type T Comment Status R	
channel - has multiple meanings already - you are introducing a new thing	C/ 56 SC 56.1.2 P47 L52 # 255
ggestedRemedy	D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei
Change "channel" to "wavelength" (or maybe "MCRS channel", several times. "PCS and	Comment Type E Comment Status A but
PMA channel" can also be changed to "wavelength".	The architectural diagram has a border box around it. Not consistent with other Clause
sponse Response Status C	diagrams inIEEE 802.3
REJECT.	SuggestedRemedy
"Channel" is not equivalent to "Wavelength". Channels are defined in MCRS, PCS, and	delete border box
PMA, which are not aware of wavelengths. There are also several sets of wavelength	Response Response Status C
defined for different coexistence classes, and each channel may map to a different wavelength in a different coexistence class (see 141.2.3). It is possible in some future project to map multiple channels into a single wavelength. The term "channel" is fundamental to the specifications in Clause 143. It is very precisely defined and that definition is confined to .3ca only. The term "wavelength" is also used multiple times in our	ACCEPT.

C/ 56 SC 56.1.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/56 SC !	56.1.2	P <b>47</b>	L <b>52</b>	# 256		C/ 56	SC 56.1.3	P <b>48</b>	L <b>38</b>	# 92
D'Ambrosia, John	n	Futurewei, U.	S. Subsidiary of	Huawei		Anslow, P	ete	Ciena		
Comment Type	E Co	omment Status A			bucket	Comment	Туре Е	Comment Status A		bucke
Title of diagra See also Fig 1 See also Fig 1	141-1, p56	nt with other similar dia	grams in Clause	e 56 of 802.3		shown	).	not include the project name	e and not all of th	e rows of the table are
See also Fig 1 See also Fig 1	143-17, p 173						e editing instru	ction to: "Insert new PMD typ		Table 56-1 (below
SuggestedRemed	dy						-	r), as follows (unchanged row	/s not snown):	
	of diagram - Figu iG–EPON archi	ure 56–4—Architectura itecture	I positioning of E	EFM:		Response ACCE		Response Status C		
Response		sponse Status C				C/ 56	SC 56.1.3	P <b>48</b>	L <b>46</b>	# 93
ACCEPT IN F	PRINCIPLE.					Anslow, Po	ete	Ciena		
Change title to	to read Figure 5	6–5a—Architectural po	sitioning of EFM	1:		Comment	Туре Е	Comment Status A		bucke
DOM D M OFO		+								
P2MP Nx25G	EPON archite	ecture						Table 56-1 (containing ellipsi		
	56.1.2	P <b>47</b>	L <b>52</b>	# 257		As the	editing instruct	Table 56-1 (containing ellipsi ion is "Insert", the inserted ro		
56 SC :	56.1.2	P <b>47</b>		# 257			editing instruct			
C/ <b>56</b> SC : D'Ambrosia, John Comment Type	<b>56.1.2</b> n <b>E</b> Co	P <b>47</b> Futurewei, U. omment Status R	S. Subsidiary of	Huawei		As the Suggested Move t	editing instruct		ws should not be	underlined.
Cl 56 SC 9 D'Ambrosia, John Comment Type Diagram not o Example- the is drawn	56.1.2 n E Co drawn in consist e vertial 25GMII	P <b>47</b> Futurewei, U.	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t	e editing instruct IRemedy the first row of T ed rows.	ion is "Insert", the inserted ro	ws should not be	underlined.
2/ 56 SC 9 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1	56.1.2 n E Co drawn in consist e vertial 25GMII 141-1, p56	P47 Futurewei, U. comment Status R tent manner with other	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggestea Move t inserte Response	e editing instruct IRemedy the first row of T ed rows.	ion is "Insert", the inserted ro able 56-1 on to the next pag	ws should not be	underlined.
Cl 56 SC S D'Ambrosia, John Comment Type Diagram not o Example- the is drawn See also Fig 1 See also Fig 1 See also Fig 1	<b>56.1.2</b> n <b>E</b> Co drawn in consist e vertial 25GMI 141-1, p56 142-1, p.104 143-17, p 173	P47 Futurewei, U. comment Status R tent manner with other	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. <i>SC</i> <b>56.1.3</b>	ion is "Insert", the inserted ro able 56-1 on to the next pag <i>Response Status</i> <b>C</b>	ws should not be	e underlined.
Cl 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See also Fig 1 See also Fig 1	<b>56.1.2</b> <b>E</b> Co drawn in consist e vertial 25GMII 141-1, p56 142-1, p.104 143-17, p 173 144-2 P 182	P47 Futurewei, U. comment Status R tent manner with other	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56	e editing instruct dRemedy the first row of T ed rows. PT. SC <b>56.1.3</b> ete	ion is "Insert", the inserted ro able 56-1 on to the next pag <i>Response Status</i> <b>C</b> <i>P</i> <b>50</b>	ws should not be	e underlined.
27 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See also Fig 1	56.1.2 The Consistent for the Consistent fo	P47 Futurewei, U. omment Status R tent manner with other text inside the diagram	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56 Anslow, Pe Comment	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. SC 56.1.3 ete <i>Type</i> E	ion is "Insert", the inserted ro Table 56-1 on to the next pag <i>Response Status</i> <b>C</b> <b>P50</b> Ciena	ws should not be e and remove the <i>L</i> 21	# underlined. # underlining from the # <u>94</u> bucket
27 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See also Fig 1	56.1.2 The Consistent for the Consistent fo	P47 Futurewei, U. comment Status R tent manner with other	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56 Anslow, Pe Comment Editing	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. SC 56.1.3 ete <i>Type</i> E g instructions us	ion is "Insert", the inserted ro Table 56-1 on to the next pag <i>Response Status</i> <b>C</b> <b>P50</b> Ciena <i>Comment Status</i> <b>A</b>	ws should not be e and remove the <i>L</i> 21 r than "statement	# underlined. # underlining from the # <u>94</u> bucke
Cl 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See also Fig 1	56.1.2 The constant of the co	P47 Futurewei, U. omment Status R tent manner with other text inside the diagram	S. Subsidiary of similar diagrams	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56 Anslow, Pe Comment Editing	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. <i>SC</i> 56.1.3 ete <i>Type</i> <b>E</b> g instructions us nsert" editing in	ion is "Insert", the inserted ro Table 56-1 on to the next pag <i>Response Status</i> <b>C</b> <b>P50</b> Ciena <i>Comment Status</i> <b>A</b> te the term "paragraph" rathe	ws should not be e and remove the <i>L</i> 21 r than "statement	# underlined. # underlining from the # <u>94</u> bucke
Cl 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See	56.1.2 The Constant of the co	P47 Futurewei, U. comment Status R tent manner with other text inside the diagram at with 56-1, 56-2, 56-3, sponse Status C	S. Subsidiary of similar diagrams - as well as how 56-4.	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56 Anslow, Pr Comment Editing The "In Suggested In the	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. <i>SC</i> 56.1.3 ete <i>Type</i> <b>E</b> g instructions us nsert" editing in <i>Remedy</i> editing instructi	ion is "Insert", the inserted ro Table 56-1 on to the next pag <i>Response Status</i> <b>C</b> <b>P50</b> Ciena <i>Comment Status</i> <b>A</b> te the term "paragraph" rathe	e and remove the	# underlined. # underlining from the # <u>94</u> <i>bucke</i> t". sertion.
Cl 56 SC 4 D'Ambrosia, John Comment Type Diagram not of Example- the is drawn See also Fig 1 See	56.1.2 The Constant of the co	P47 Futurewei, U. comment Status R tent manner with other text inside the diagram	S. Subsidiary of similar diagrams - as well as how 56-4.	<sup>r</sup> Huawei s in Clause 56.	nterface	As the Suggested Move t inserte Response ACCE C/ 56 Anslow, Pr Comment Editing The "In Suggested In the	e editing instruct <i>Remedy</i> the first row of T ed rows. PT. <i>SC</i> 56.1.3 ete <i>Type</i> <b>E</b> g instructions us nsert" editing in <i>Remedy</i> editing instructive the underline	ion is "Insert", the inserted ro Table 56-1 on to the next pag <i>Response Status</i> <b>C</b> <i>P</i> <b>50</b> <i>Ciena</i> <i>Comment Status</i> <b>A</b> e the term "paragraph" rathe struction does not use underl on, change "after the statement	e and remove the	# underlined. # underlining from the # <u>94</u> <i>bucke</i> t". sertion.

C/ 56 SC 56.1.3

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C/ <b>56</b>	SC 56.1.3	P <b>50</b>	L <b>25</b>	# 398	C/ 67	SC 67	P <b>55</b>	L1	# 326
Dawe, Pie	rs	Mellanox			Laubach, I	Mark	Broadcom		
Comment	Туре Т	Comment Status A			Comment	Type <b>TR</b>	Comment Status A		
You ca	an't make a PON	I with a single PMD type. Also	o, there are opti	ons.	Draft is	s missing upda	tes to Clause 67 for System co	onsiderations for E	Ethernet subscriber
Suggestea	IRemedy					s networks			
	e "All these syst y PMDs defined	ems employ a PMD defined ir in Clause 141."	n Clause 141." t	o "All these systems	•		s per laubach_3ca_1_0719.pdf	to add entries for	the P802.3ca media
Response		Response Status C			types.				
ACCE	PT.				Response		Response Status C		
					ACCE	PT IN PRINCI	PLE.		
CI 56	SC 56.1.3	P <b>51</b>	L <b>6</b>	# 427	As pro	posed, but rath	ner with the following changes:		
Dawe, Pie		Mellanox				00" to "50 Gb/s			
Comment	Type ER	Comment Status R				00" to "25 Gb/s 00" to "10 Gb/s			
	ne right.	ith the eccentric order of some	e previous proje	cts but we can do a	Mb/s".		umn, removing "Mb/s" from col 000" and "10000" entries to "Gl		
•••	•	141-144: MPMC then MCRS	then PCS/PMA	then PMD	C/ 141	SC 141	P <b>55</b>	L1	# 121
We ca		existing columns in Table 56-			Remein, D			chnologies, Inc.	· · ·
Response		Response Status U			Comment	51	Comment Status A		bucke
REJE	CT.					istomary to inc ate v3.9.	lude an editing Instruction prior	to new clauses a	s noted in the WG
The cla	ause order follow	vs the clause order used by P2	2MP projects be	efore.	Suggested	lRemedy			
C/ 56	SC 56.1.3	P <b>54</b>	L5	# 284		before Clause new clauses a	141 and corresponding annexes as	follows:"	
Wienckow	ski, Natalie	General Motor	ſS		Response		Response Status C		
Comment Clause	51	Comment Status <b>A</b> ved from Table 56-3 but wasn't	t put into Table	56-4.	ACCE	PT.			
Suaaesteo	<i>IRemedy</i> lause 100 in Tat	ble 56-4.							
00									

C/ 141 SC 141

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

W 141 SC 141.1.2 P56 L1 # 17	C/ 141 SC 141.1.3	P55	L <b>31</b>	# 356
łajduczenia, Marek Charter Communications	Dudek, Mike	Marvell		
Comment Type TR Comment Status A	Comment Type T	Comment Status A		
Figure 141–1 shows Nx25G-EPON and not EPON.		V0 +DW1 for the 50G link in able 141-3 etc. it is not obviou		
uggestedRemedy	SuggestedRemedy			
Change "EPON" to "Nx25G-EPON" in caption. Also, we need to show XGMII in there as an option for OLT and ONU, since we also support asymmetric mode of operation with 10Gbps dat arate	Add a sentence at the	end of the paragraph (at line Iltiplexing on two wavelengths		
Response Response Status C	Response	Response Status <b>C</b>		
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPL	•		
Change "EPON" to "Nx25G-EPON" in caption. See comment #122 for XGMII-related changes.	C C	vith terminology alignment:		
% 141     SC 141.1.2     P56     L1     # 122		nk Types supporting 50 Gb/s /o wavelengths are listed for t		
Remein, Duane Futurewei Technologies, Inc.		0.55	1.00	"
Comment Type TR Comment Status A	C/ 141 SC 141.1.3	P <b>55</b>	L <b>38</b>	# 285
In Fig 141-1 (and the other similar figures in 142, 143, & 144) all show two 25GMII interfaces but never indicate use of the XGMII.	Wienckowski, Natalie	General Moto	rs	
SuggestedRemedy	Comment Type E	Comment Status D		
For each of the four figures in 2 places, adjacent to the right of OLT and ONU 25GMII, add		paces in number that have 4 ne 2014 IEEE-SA Style Manu		o the right of the
"Note 1". Below the graphic and above the key add the following: "Note 1: in some instances of Nx25-EPON one-half of an XGMII (transmit or receive) may be paired with a	SuggestedRemedy			
complementary half (receive or transmit) of a 25GMII to provide a 25Gb/s downstream and 10Gb/s upstream interface."	Change: 25.78125 To: 25.781 25			
Response Response Status C	Proposed Response	Response Status Z		
ACCEPT IN PRINCIPLE.	PROPOSED REJECT.			
This is true only for channel 0 interface. It is better to add two lettered footnotes: a) (attached to the first 25GMII interface) - "In some instances of Nx25-EPON one-half of an XGMII (transmit or receive) may be paired with its complementary peer (receive or transmit) of a 25GMII to provide a 25Gb/s downstream and 10Gb/s upstream interface." b) (attached to the second 25GMII interface) - "This interface may be absent in devices that do not support 50G-EPON PMDs."	This comment was WI	THDRAWN by the commente	r.	

C/ 141 SC 141.1.3

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C/ 141 SC 141.1.3 P55 L39 # 286	C/ 141 SC 141.1.3 P57 L25 # 288
Wienckowski, Natalie General Motors	Wienckowski, Natalie General Motors
Comment Type E Comment Status D	Comment Type E Comment Status D
Missing non-breaking spaces in number that have 4 or more digits to the right of the decimal per 13.3.2 of the 2014 IEEE-SA Style Manual.	Missing non-breaking spaces in number that have 4 or more digits to the right of the decimal per 13.3.2 of the 2014 IEEE-SA Style Manual.
SuggestedRemedy Change: 10.3125 To: 10.312 5	SuggestedRemedy Change: 10.3125 To: 10.312 5
Proposed Response Response Status Z PROPOSED REJECT.	Proposed Response Response Status Z PROPOSED REJECT.
This comment was WITHDRAWN by the commenter.	This comment was WITHDRAWN by the commenter.
Cl 141 SC 141.1.3 P57 L8 # 287	C/ 141 SC 141.2.5 P58 L1 # 403
Wienckowski, Natalie General Motors	Dawe, Piers Mellanox
Comment Type         E         Comment Status         D           Missing non-breaking spaces in number that have 4 or more digits to the right of the decimal per 13.3.2 of the 2014 IEEE-SA Style Manual.         D	Comment Type E Comment Status A but "A medium PMD power class" and "A high PMD power class" but "The medium power budget class"
SuggestedRemedy	SuggestedRemedy
Change: 25.78125	Per style manual: use the same name for the same thing, every time.
To:  25.781 25 Also on P57 L9, P57 L 24, P57 L40, P57 L41, P58 L 6, P58 L7, P66 L11, P67 L13, P71 L11, P72 L13, P73 L18, & P74 L14.	Response Response Status C ACCEPT IN PRINCIPLE.
Proposed Response Response Status Z PROPOSED REJECT.	Change "The medium power budget class" to "The medium PMD power class". Change "high power budget class" to "The high PMD power class"
This comment was WITHDRAWN by the commenter.	C/ 141 SC 141.2.5 P58 L50 # 401
	Dawe, Piers Mellanox
	Comment Type E Comment Status A but with the split ratio of
	SuggestedRemedy
	with a split ratio of

C/ 141 SC 141.2.5

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

	050	1.50	# [100		00 4 44 0 0		140	# 405
C/ 141 SC 141.2.5	P58	L <b>50</b>	# 402	C/ 141	SC 141.2.6	P <b>59</b>	L18	# 405
Dawe, Piers	Mellanox			Dawe, Pie		Mellanox Comment Status A		
Comment Type <b>T</b> Will these work over lea overload. But that cont	Comment Status A ss than 1:16 and/or less than tradicts "<= x dB".	20 km? As stat	ted, it's all about		I PMDs don't us	e a baseband signal! 1.2.3 s encoded data is transmitted c		odulation type (e.g.,
SuggestedRemedy Rephrase "at least". Response	Response Status <b>C</b>			and all	, optical PMDs a	ll have BASE in their name ( nodulation". However, P802. lank.		
ACCEPT IN PRINCIPL	.E.			Response		Response Status C		
Delete the "at least" sta	atements for both power budg	jets.		ACCE	PT.			
C/ 141 SC 141.2.6	P <b>59</b>	L <b>9</b>	# 18	C/ 141	SC 141.2.7	P <b>5</b> 9	L <b>29</b>	# 408
Hajduczenia, Marek	Charter Comm	nunications		Dawe, Pie	rs	Mellanox		
	Comment Status A eader's eyes to see r <sub>1<!--<br-->so changes are minimum</sub>	/sub> and not r1	bucket . Same for r2. This is	Comment paired Suggested	PMDs transmitte	Comment Status <b>A</b> er launch power and receiver	r sensitivity	
SuggestedRemedy Per comment				paired	PMD's transmitt	er launch powers and receiv	er sensitivities	
Response ACCEPT.	Response Status C			Response ACCE	PT IN PRINCIPL	Response Status <b>C</b> E.		
C/ 141 SC 141.2.6	P <b>59</b>	L17	# 406	Chang	e to "paired PMI	Ds' transmitter launch powers	s and receiver se	ensitivities"
Dawe, Piers	Mellanox			C/ 141	SC 141.2.7	P <b>59</b>	L <b>29</b>	# 407
Comment Type E	Comment Status A			Dawe, Pie	rs	Mellanox		
"rate class (in Gb/s)", "	PMDs operate at Gigabit rate	s"			Type <b>T</b>	Comment Status A		
SuggestedRemedy				"a pow	ver budget is a cl	naracteristic of a link"		
Gigabit -> gigabit/s. Bu	ut actually, G is a multiplier fo	r r1/r2		Suggested				
Response	Response Status C					ertion loss" is a characteristic of PMD types, of a link type,		
ACCEPT IN PRINCIPL	.E.			Response		Response Status C		
	NPMD naming conforms to th onforms to the following sema				PT IN PRINCIPL			
Change "class (in Gb/s	e) at Gigabit rates" to "PMDs c			Chang				
				"a pow	ver budget is a cl	naracteristic of a link"		
				to				
				"a pow	ver budget is a cl	naracteristic of a link type"		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 141
 Page 23 of 103

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 141
 9/17/2019 11:11:42 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 141
 9/17/2019 11:11:42 AM

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C/ 141	SC 141.2.7	P <b>59</b>	L <b>33</b>	# 410	C/ 141	SC 141.2.7	P <b>59</b>	L <b>40</b>	# 19	
Dawe, Piers	S	Mellanox			Hajduczen	a, Marek	Charter Com	munications		
Comment T	Гуре Т	Comment Status A			Comment 7	уре Е	Comment Status A			bucke
		bout "same coexistence mode			Footno	te (b) location in	Table 141–7 is odd (it move	d to a new line)		
in coexi to an X	<i>,</i> , ,	n if one is), in what circumstar	nces can a G co	onnect to another G, or	Suggested	Remedy				
Suggested					Make s	ure footnote (b)	location is with the main text	of the column c	aption (extend c	column
00	out clearly				size a l	pit)				
•	out clearly				Response		Response Status C			
Response		Response Status <b>C</b>			ACCER	ΥТ.				
ACCEP	PT IN PRINCIPL	-E.			C/ 141	SC 141.2.7	P60	<i>L</i> 1	# 20	
		n page 59, line 34 (end of exis			Hajduczen	a. Marek	Charter Com	munications		
		IDs is not supported, e.g., 25/ 0GBASE-PQX-U2 due to non-			Comment	-	Comment Status A			bucke
		smitter wavelength range."				51	for Table 141-7 caption			
/ 141	SC 141.2.7	P <b>59</b>	L <b>35</b>	# 329	Suggested	Remedv				
aubach, M	/lark	Broadcom			00	ure it is added				
omment T	Type E	Comment Status A		bucket	Response		Response Status <b>C</b>			
Table 1	41-7, as table is	Comment Status <b>A</b> s split across pages, missing l n table title on page 60. This is		table on page 59 and	Response ACCEF	РТ.	Response Status C			
Table 1 missing	41-7, as table is g "(continued)" in	s split across pages, missing l		table on page 59 and	•	PT. SC <b>141.2.7.1</b>	Response Status C	L19	# 21	
Table 1 missing SuggestedF	41-7, as table is g "(continued)" in <i>Remedy</i>	s split across pages, missing l	s Framemaker t	table on page 59 and	ACCEF	SC 141.2.7.1	,	-	# 21	
Table 1 missing SuggestedF Add the	41-7, as table is g "(continued)" in <i>Remedy</i>	s split across pages, missing I n table title on page 60. This is variable thing to add the "(cor	s Framemaker t	table on page 59 and	ACCEF C/ 141	SC <b>141.2.7.1</b> a, Marek	P60	-	# 21	
Table 1 missing SuggestedF Add the	41-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the	s split across pages, missing l n table title on page 60. This is	s Framemaker t	table on page 59 and	ACCEF Cl 141 Hajduczen Comment T "Table	SC <b>141.2.7.1</b> a, Marek <i>ype</i> <b>T</b> 141–8 illustrates	P <b>60</b> Charter Com	munications		
Table 1 missing Suggestedf Add the Response ACCEF	41-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the	s split across pages, missing I n table title on page 60. This is variable thing to add the "(cor	s Framemaker t	table on page 59 and	ACCEF Cl 141 Hajduczen Comment T "Table	SC 141.2.7.1 a, Marek <i>Type</i> T 141–8 illustrates nendations and b	P60 Charter Com Comment Status A recommended pairings"	munications		
missing Suggestedf Add the Response	141-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7	s split across pages, missing I n table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b>	s Framemaker t ntinue)".	table on page 59 and table stuff.	ACCER C/ 141 Hajduczen Comment T "Table recomr Suggested	SC 141.2.7.1 a, Marek <i>Type</i> T 141–8 illustrates nendations and b	P60 Charter Com Comment Status A recommended pairings"	munications		
Table 1 missing Suggestedf Add the Response ACCEF Cl 141 Dawe, Piers	A1-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7	s split across pages, missing l n table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b> <i>P</i> <b>59</b>	s Framemaker t ntinue)".	table on page 59 and table stuff.	ACCER C/ 141 Hajduczen Comment T "Table recomr Suggested	SC 141.2.7.1 a, Marek 7ype T 141–8 illustrates nendations and o Remedy	P60 Charter Com Comment Status A recommended pairings"	munications		
Table 1 missing Suggestedf Add the Response ACCEF	A1-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7 S <i>Fype</i> <b>E</b>	s split across pages, missing lint table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b> <i>P</i> <b>59</b> Mellanox	s Framemaker t ntinue)".	table on page 59 and table stuff. # 409	ACCER C/ 141 Hajduczen Comment "Table recomr Suggested Strike	SC 141.2.7.1 a, Marek Type T 141–8 illustrates nendations and o Remedy recommended"	P60 Charter Com <i>Comment Status</i> A recommended pairings" other pairings are possible	munications		
Table 1 missing Suggestedf Add the Response ACCEP C/ 141 Dawe, Piers Comment 7 Dow nstrean	141-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7 rs <i>Fype</i> <b>E</b> m	s split across pages, missing lint table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b> <i>P</i> <b>59</b> Mellanox	s Framemaker t ntinue)".	table on page 59 and table stuff. # 409	ACCER C/ 141 Hajduczen Comment "Table recomr Suggested Strike" Response	SC 141.2.7.1 a, Marek Type T 141–8 illustrates nendations and o Remedy recommended"	P60 Charter Com <i>Comment Status</i> A recommended pairings" other pairings are possible	munications		
Table 1 missing Suggestedf Add the Response ACCEF C/ 141 Dawe, Piers Comment 7 Dow nstream Suggestedf	141-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7 rs <i>Fype</i> <b>E</b> m	s split across pages, missing lint table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b> <i>P</i> <b>59</b> Mellanox	s Framemaker t ntinue)".	table on page 59 and table stuff. # 409	ACCER C/ 141 Hajduczen Comment "Table recomr Suggested Strike" Response	SC 141.2.7.1 a, Marek Type T 141–8 illustrates nendations and o Remedy recommended"	P60 Charter Com <i>Comment Status</i> A recommended pairings" other pairings are possible	munications		
Table 1 missing Suggestedf Add the Response ACCEF Cl 141 Dawe, Piers Comment 7 Dow nstream Suggestedf	141-7, as table is g "(continued)" in <i>Remedy</i> e ruling. Do the PT. SC 141.2.7 's <i>Type</i> <b>E</b> n <i>Remedy</i>	s split across pages, missing lint table title on page 60. This is variable thing to add the "(cor <i>Response Status</i> <b>C</b> <i>P</i> <b>59</b> Mellanox	s Framemaker t ntinue)".	table on page 59 and table stuff. # 409	ACCER C/ 141 Hajduczen Comment "Table recomr Suggested Strike" Response	SC 141.2.7.1 a, Marek Type T 141–8 illustrates nendations and o Remedy recommended"	P60 Charter Com <i>Comment Status</i> A recommended pairings" other pairings are possible	munications		

C/ 141 SC 141.2.7.1

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7 141 SC 141.2	2.7.1 P60	L <b>41</b>	# 22		C/ 141	SC 141.3.1	.1	P <b>61</b>	L <b>50</b>	# 411	
ajduczenia, Marek	Charter	Communications			Dawe, Pier	3		Mellanox			
Comment Type <b>T</b>	Comment Status R				Comment 7	ype T	Comm	ent Status A			
	refers to coexistence option	is as coexistence clas	ses and not		EQT?						
coexistence modes	5				Suggested	Remedy					
SuggestedRemedy	na nama nanviatanan mada"	to "ourport the come	anaviatanan alan	o"	As this	is its first app	erance, expl	ain, e.g. with a cro	ss-reference		
	ne same coexistence mode" on Page 61, like 25	to support the same	coexistence clas	5	Response		Respor	nse Status C			
Response	Response Status C				ACCEF	T IN PRINCIP	PLE.				
REJECT.					Insert c	ross reference	e to 1.4.245	D			
"support the same	coexistence class" is wrong	. They either support t	he same coexiste	ence	C/ 141	SC 141.3.1	.2	P <b>62</b>	<i>L</i> 1	# 413	
	ng to the same coexistence				Dawe, Pier		-	Mellanox			
7 141 SC 141.3	<i>P</i> 61	L <b>29</b>	# 123		Comment T		Comm	ent Status A			
emein, Duane	Futurew	ei Technologies, Inc.								mitive is used" Wi	hy
omment Type E	Comment Status A			bucket	does th	s use [] nota	tion for what	seems to be an e	quivalent thing?		
Nx25G-EPON PMI	Response Status C	e PMD".	Table 141-1 title is	s " for	Insert " - PMD_ - PMD_ - PMD_ - PMD_ Add the	UNITDATA[i]. SIGNAL[i].rec SIGNAL[i].ind statement: "f	PLE. request(tx_l indication(n juest(tx_ena lication(SIGI For any inde he end of pa	bit), page 62, line 5 (_bit), page 62, line (bble), page 62, line	9 18 31 ge 62, line 39 , TP1[i]), [i] indic	ates the channel ind	lex,
Change all instance	e of				-		.2	-	L8	# 412	
"PQ type PMD" to	<b>ا</b> م				Dawe, Pier			Mellanox			
"Nx25G-EPON PM	ID"				Comment 7 signalir	<i>ype</i> <b>T</b> g speed	Comm	ent Status A			
					Suggested	Remedy					
					signalir	g rate					
					Response ACCEF	Т.	Respor	ose Status C			
					Change	all instances					
	quired ER/editorial required D/dispatched A/accepted R	U 1	T/technical E/ed	ditorial G/g	eneral			C/ 14	1	Page 25 of 2	103

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 141.3.1.2 SORT ORDER: Clause, Subclause, page, line

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 141	SC 141.3.3	P <b>64</b>	L <b>2</b>	# 414	C/ 141	SC 141.5	P <b>65</b>	L	# 350
Dawe, Piers	S	Mellanox			Laubach, M	ark	Broadcom		
Comment Ty	Гуре Т	Comment Status A			Comment T	vpe E	Comment Status A		bucket
As there	e are three levels	S					a plus-minus symbol in the dra		
SuggestedR		1 18					mbol and the following number ugh 19 consistent.	r. Suggest maki	ng the 5 uses in lines 6
0	e "higher" to "high				SuggestedR	emedy			
Response		Response Status C			Add the	non-breaking	space after the plus-minus syr	mbol.	
ACCEP	<i>'</i> Τ.				Response		Response Status C		
C/ 141	SC 141.3.3	P64	L <b>2</b>	# 355	ACCEP	Г.			
udek, Mike	e	Marvell			C/ 141	SC 141.5	P <b>65</b>	L <b>24</b>	# 124
omment Ty	51	Comment Status A			Remein, Du	ane	Futurewei Teo	chnologies, Inc.	
I could not find which bits are allocated to DW1 and which to DW0. I would have expected that information to be in 141.3.3 and 141.3.4. Does it matter? (I suspect it does).					Comment T	vpe E	Comment Status A	-	bucket
		141.3.3 and 141.3.4. Does	it matter? (i susp	ect it does).	There a	e 2 instances	of "PQ PHY". Whereas Nx25	G-EPON PHY a	ppears 256 times.
uggestedR	•						e not desirable.		
Add the	extra informatio	on or state explicitly that it doe	esn't matter.		SuggestedR	emedy			
Response ACCEP	PT IN PRINCIPLE	Response Status <b>C</b> E.			Change "PQ PH "Nx25G	Y" to EPON PHY"			
Implem	ent changes per ww.ieee802.org/	'3/ca/public/meeting archive/	/2019/07/kramer_;	3ca_11_0719.pdf	Response	Г.	Response Status C		
					ACCEP				
http://ww	SC 141.3.6	P <b>64</b>	L <b>45</b>	# 415		SC 141 5	P65	/ 25	# 125
http://wv		P64 Mellanox	L <b>45</b>	# 415	C/ 141	SC 141.5	P65	L <b>25</b>	# 125
	s	P64	L <b>45</b>	# 415	C/ 141 Remein, Du	ane	Futurewei Teo	L25 chnologies, Inc.	
http://ww / <b>141</b> awe, Piers omment Ty	s	P64 Mellanox Comment Status A	L <b>45</b>	# 415	C/ 141 Remein, Du Comment Ty	ane (pe E	Futurewei Teo Comment Status A	chnologies, Inc.	bucket
http://ww / <b>141</b> awe, Piers <i>omment Ty</i> Just say	s <i>Type</i> <b>T</b> ying "it's defined" Remedy	P64 Mellanox Comment Status A " isn't enough.		# 415	C/ 141 Remein, Du Comment Ty There a	ane <i>pe</i> <b>E</b> re 2 instances	Futurewei Teo	chnologies, Inc.	bucket
http://ww 2 <b>141</b> Dawe, Piers Comment Ty Just say SuggestedR	s <i>Type</i> <b>T</b> ying "it's defined" Remedy	P64 Mellanox Comment Status A		# 415	Cl 141 Remein, Du Comment Ty There a times. F	ane <i>pe</i> <b>E</b> re 2 instances Random new te	Futurewei Teo Comment Status A of "PQ compliant". Whereas	chnologies, Inc.	bucket
http://ww / 141 pawe, Piers omment Ty Just say uggestedR Define it esponse	s <i>Type</i> <b>T</b> ying "it's defined" Remedy	P64 P64 Mellanox Comment Status A " isn't enough. Il level), or refer to somewher Response Status C		# <u>415</u>	Cl 141 Remein, Du Comment Ty There a times. I SuggestedR Change "PQ cor	ane <i>pe</i> <b>E</b> re 2 instances Random new te	Futurewei Teo Comment Status A of "PQ compliant". Whereas erms are not desirable.	chnologies, Inc.	bucket
http://ww http:/	s Fype <b>T</b> ying "it's defined' Remedy it (at a superficia PT IN PRINCIPLE	P64 P64 Mellanox Comment Status A " isn't enough. Il level), or refer to somewher Response Status C	re that does.		Cl 141 Remein, Du Comment Ty There a times. I SuggestedR Change "PQ cor	ane ype E te 2 instances Random new to emedy all instances of apliant" to	Futurewei Teo Comment Status A of "PQ compliant". Whereas erms are not desirable.	chnologies, Inc.	bucket

C/ 141 SC 141.5

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C/ 141	SC 141.5.1	P <b>66</b>	L16	# 95	C/ 141	SC 141.5.	1	P <b>66</b>	L <b>27</b>	# 416
Anslow, Pe	ete	Ciena			Dawe, P	ers		Mellanox		
Comment	Туре Е	Comment Status A		bu	cket Commen	t Type TR	Comment	Status R		
		sh as a minus sign contain an em-dash					ninimum of 8 dB s up at worse TDF			aint, which may force
Suggested	Remedy				Suggeste	dRemedy				
examp 3 insta	le: nces in Table	-	) throughout the o	entire draft. For	This	will cost the rea	ceiver nothing an	d widen the im	plementation opt	line 24 as necessary. ions for the dB extinction ratio".
	nces in Table	141-14 141-15 (and footnote d)			Respons	е	Response	Status <b>U</b>		
9 insta		141-16 (and footnote e)			REJI	ECT.				
3 insta 8 insta 8 insta 4 insta	nces in Table	141-18 141-19 (and footnote c) 141-20			to Ef Tx a	R value would c nd Rx specifica	ause ripple effec	ts for all receiv R (min) value v	ve side spècs. A c vould be needed.	8dB and any changes complete proposal for To date experimental
etc. Popula	ate emoty table	e cells with an em-dash (Ctrl-q	Shft-a) throughou	it the entire draft Fo	C/ 141	SC 141.5.	1	P <b>66</b>	L <b>34</b>	# 417
examp					Dawe, P	ers		Mellanox		
	nces in Table	-			Commen		Comment	Status A		
	nces in Table <sup>•</sup> nces in Table <sup>•</sup>								25 0 40 0 45 0	25, 0.28, 0.40} ("no
	nces in Table				hits")	or		-		(
etc.							0.235, 0.265, 0.4			
Response		Response Status C				sample	R Te-TZ, TDP ma	ax 3.5, mask {(	0.23, 0.34, 0.43, 0	0.27, 0.35, 0.4} at 5e10
ACCE	PT.				25GI	BASE-SR: BER		nax 4.3 dB, ma	ask {0.3, 0.38, 0.4	45, 0.35, 0.41, 0.5} at
C/ 141	SC 141.5.1	P <b>66</b>	L <b>22</b>	# 96		3 hits/sample. BASE-LR, ER:		<sup>o</sup> max 2.7 dB,	{0.31, 0.4, 0.45,	0.34, 0.38, 0.4} at 5e-5
Anslow, Pe	ete	Ciena				ample. KR FE		15 dB (0.25	0.4, 0.45, 0.25, 0	28, 0, 4 at 50, 5
Comment	Туре Е	Comment Status A		bu		ample. QC-LE		1.5 ub, {0.25,	0.4, 0.45, 0.25, 0	.20, 0.4} at 5e-5
	nould be a sing issue in Table	gle character (Ctrl-q 8 in Symbo 141-14	ol font)		ONU			k coordinates	as 25GBASE-LR	, ER. QC-LDPC FEC
Suggested	Remedy				00	-	nask hit ratio so	nowhere near	1e-2 and should	review the mask
change	e ">=" to a sing	gle character (Ctrl-q 8 in Symbo	ol font) here and	in Table 141-14 (pag	je coor	linates when th		newnere near		Teview the mask
67, line	e ZZ)				Respons		Response	Status U		
Response		Response Status C			ACC	EPT IN PRINC	IPLE.			
ACCEI	ΡΪ.					t an editor's no nent against th		the new mask	will be needed a	nd submitted as a

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 141 SC 141.5.1 Page 27 of 103 9/17/2019 11:11:42 AM

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C/ 141 SC 141.5.1 P66 L35 # 23	C/ 141 SC 141.5.2 P68 L32 # 418
Hajduczenia, Marek Charter Communications	Dawe, Piers Mellanox
Comment Type ER Comment Status A	Comment Type TR Comment Status R
"the OMA (min) must exceed this value" - sounds like it is intended to be a hard requirement? If that is the case, it shoul dbe converted into a "shall" statement and PICS updated accordingly	If these PMDs use FEC, probably the stressed receive signal should be defined by SEC and J4, as 25GBASE-SR, LR and ER, rather than VECP, J2 and J9 as 40GBASE-SR4.
SuggestedRemedy	SuggestedRemedy But as the pre-BER is 1e-2, even J4 is wrong. Maybe Jrms and J3 would be suitable.
Per comment. The same comment applies to page 67, like 35; page 71, line 46, and page 72, line 42	can easily be defined for a BER of 1e-2.
Response Response Status C	Response Response Status U
ACCEPT IN PRINCIPLE.	REJECT.
The footnotes are already normative as formatted right now. Convert "must" statements into informative statements, e.g., "(min) must exceed this value" becomes "(min) exceeds this value"	Per http://www.ieee802.org/3/cc/public/adhoc/160907/tamura_3cc_adhoc_01.pdf, the current .3ca method of SRS measurement based on 100GBASE-LR/ER SRS is more conservative than SRS for a single wavelength of 100GBASE-SR4/LR/ER. There is no need to rework the specification at this time. See http://www.ieee802.org/3/ca/public/meeting_archive/2019/07/powell_3ca_2a_0719. for detailed discussion.
C/ 141 SC 141.5.2 P68 L3 # 126	C/ 141 SC 141.5.2 P68 L35 # 439
Remein, Duane Futurewei Technologies, Inc.	Powell, William Nokia
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.	Comment Type TR Comment Status A Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two. The same issues exists in Tables 141-16, 141-17 & 141-18.	Comment Type <b>TR</b> Comment Status <b>A</b> Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two. The same issues exists in Tables 141-16, 141-17 & 141-18. SuggestedRemedy	Comment Type <b>TR</b> Comment Status <b>A</b> Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two. The same issues exists in Tables 141-16, 141-17 & 141-18. SuggestedRemedy Remove the 2nd instance (indicating 2 center wavelengths) of both.	Comment Type <b>TR</b> Comment Status <b>A</b> Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19. SuggestedRemedy
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status C	Comment Type         TR         Comment Status         A           Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.           SuggestedRemedy         Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J2 Jitter" and "Stressed eye J3 Jitter" in Table 141-15.
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two. The same issues exists in Tables 141-16, 141-17 & 141-18. SuggestedRemedy Remove the 2nd instance (indicating 2 center wavelengths) of both.	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status         ACCEPT.
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status       C         ACCEPT.       C/ 141       SC 141.5.2       P68       L37       # 310
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status       C         ACCEPT.       C/ 141       SC 141.5.2       P68       L37       # 310         Lynskey, Eric       Broadcom
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status         C	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status       C         ACCEPT.       C/ 141       SC 141.5.2       P68       L37       # 310         Lynskey, Eric       Broadcom         Comment Type       T       Comment Status       A         Table 141-15 references Table 75-6, which does not contain two entries for stressed eye       Stressed eye       Stressed eye
50/25GBASE-PQG-D2 and 50/25GBASE-PQX-D2 appear in Table 141-15 twice, once with a single receive wavelength and once with two.         The same issues exists in Tables 141-16, 141-17 & 141-18.         SuggestedRemedy         Remove the 2nd instance (indicating 2 center wavelengths) of both.         Response       Response Status         C	Comment Type       TR       Comment Status       A         Tables 141–15: In addition to "Vertical eye closure penalty", footnote (f) should also app to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters and to make it consistent with footnote (e) in Table 141-19.         SuggestedRemedy       Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-15.         Response       Response Status         Cl       141         SC 141.5.2       P68         Lynskey, Eric       Broadcom         Comment Type       T         Comment Status       A         Table 141-15 references Table 75-6, which does not contain two entries for stressed eye jitter.         SuggestedRemedy

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C/ 141	SC 141.5.2	2 P <b>69</b>	L <b>20</b>	# 437
Powell, W	illiam	Nokia		
Comment	Type <b>TR</b>	Comment Status A		Average receive power

Table 141-16 has an entry for Average receive power, each channel (min) while it's medium power class cousin, Table 141-15, does not, which is not consistent. That entry should be removed per the rationale in comment #279 on D1.1 (John Johnson): "The inclusion of an informative spec on minimum average receive power doesn't serve any purpose to specify a compliant RX. An RX that meets the requirements of maximum receiver sensitivity (OMA) and maximum stressed receiver sensitivity (OMA) is compliant, even for very low values of AVP associated with very high ER signals."

#### SuggestedRemedy

Remove Average receive power, each channel (min) from Table 141-16.

Response

Response Status C

ACCEPT IN PRINCIPLE.

#### See comment #446

C/ 141	SC 141.5.2	P <b>69</b>	L <b>20</b>	# 446
Johnson,	John	Broadcom		
Comment	Type <b>T</b>	Comment Status A		Average receive power

The inclusion of an informative spec on minimum average receive power doesn't serve any purpose to specify a compliant RX. An RX that meets the requirements of maximum receiver sensitivity (OMA) and maximum stressed receiver sensitivity (OMA) is compliant, even for very low values of AVP associated with very high ER signals. This line should be removed from Table 141-16. (This repeats a comment originally submitted against D1.1)

#### SuggestedRemedv

Delete the line for "Average receive power, each channel

(min)" in Table 141-16 and remove associated footnote (d).

Response Status C

Response

#### ACCEPT.

C/ 141	SC	141.5.2	P <b>69</b>	L <b>20</b>	# 308
Lynskey, I	Eric		Broadcom		
Comment	Туре	т	Comment Status A		
	141-16 (min).	reference	s Table 75-6, which does no	ot contain an entr	y for Average receive
Suggested Mark t		dy as not ap	blicable.		
Response ACCE			Response Status C		

C/ 141	SC 141.5.2		P <b>69</b>	L <b>37</b>	# 441
Powell, W	liliam		Nokia		
-	_	-			

#### Comment Type Comment Status A TR

Table 141–16: In addition to "Vertical eye closure penalty", footnote (g) should also apply to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters, and to make it consistent with Table 141-19.

#### SuggestedRemedy

Apply footnote (g) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-16.

Response	Response Status	С
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ACCEPT.

C/ 141	SC	141.5.2	P69	L <b>38</b>	# 309
Lynskey, I	∃ric		Broadcom		
Comment	Туре	т	Comment Status A		
Table jitter.	141-16	o reference	s Table 75-6, which does not	t contain two en	tries for stressed eye

#### SuggestedRemedy

Mark this cell as not applicable.

Response ACCE		Response Status C	Response Status C			
C/ 141	SC 141.6	P <b>70</b>	L <b>7</b>	# 127		
Remein, I	Duane	Futurewei Te	chnologies, Inc.			
Comment	Туре Т	Comment Status A				
		ot list media types as asserted over the media types listed in <sup>-</sup>	0	•		

specifications described in 141.9". We could restructure the table similar to Table 75-14 or change the statement.

#### SuggestedRemedy

Change: "media types listed in" to "media meeting the dispersion shown in"

#### Response Response Status C

```
ACCEPT.
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Comment type was changed to "T".

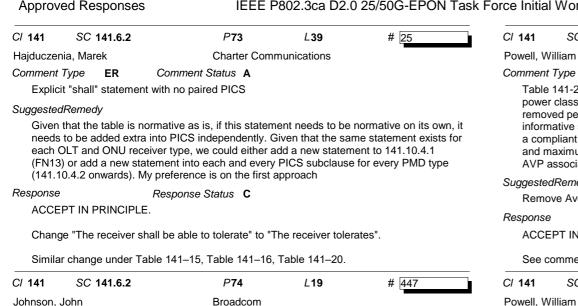
TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Clause, Subclause, page, line	

Cl	141		
SC	141.6		

C/ 141

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Comment Status A Comment Type T Average receive power

The inclusion of an informative spec on minimum average receive power doesn't serve any purpose to specify a compliant RX. An RX that meets the requirements of maximum receiver sensitivity (OMA) and maximum stressed receiver sensitivity (OMA) is compliant, even for very low values of AVP associated with very high ER signals. This line should be removed from Table 141-20. (This repeats a comment originally submitted against D1.1)

#### SuggestedRemedy

Delete the line for "Average receive power, each channel (min)" in Table 141-20.

Response Status C

Response

ACCEPT.

C/ 141	SC 141.6.2	P <b>74</b>	L <b>19</b>	# 438
Powell, Will	liam	Nokia		
Comment T	ype TR	Comment Status A		Average receive power

Table 141-20 has an entry for Average receive power, each channel (min) while it's medium power class cousin, Table 141-19, does not, which is not consistent. That entry should be removed per the rationale in comment #283 on D1.1 (John Johnson): "The inclusion of an informative spec on minimum average receive power doesn't serve any purpose to specify a compliant RX. An RX that meets the requirements of maximum receiver sensitivity (OMA) and maximum stressed receiver sensitivity (OMA) is compliant, even for very low values of AVP associated with very high ER signals."

#### SuggestedRemedy

Remove Average receive power, each channel (min) from Table 141-20.

Response	Response Status	С	

ACCEPT IN PRINCIPLE.

See comment #447

C/ 141	SC 141.6.2	P <b>74</b>	L <b>30</b>	# 440
Powell, W	/illiam	Nokia		
Comment	Type TR	Comment Status A		

Tables 141-20: In addition to "Vertical eye closure penalty", footnote (f) should also apply to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" since it refers to all 3 parameters, and to make it consistent with footnote (e) in Table 141-19.

#### SuggestedRemedy

Apply footnote (f) to "Stressed eye J2 Jitter" and "Stressed eye J9 Jitter" in Table 141-20.

C/ 141	SC 141.7	P <b>75</b>	L <b>4</b>	# 24
Hajduczer	nia, Marek	Charter Com	munications	
Comment	Type E	Comment Status D		
Suggestee	dRemedy			
Proposed	Response	Response Status Z		
REJE	CT.			

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C/ 141 SC 141.7	.1 P75	L11	# 56	C/ 141	SC 141.7.5	P <b>75</b>	L <b>36</b>	# 57
Kolesar, Paul	CommS	соре		Kolesar, Pau	I	Comm	Scope	
Comment Type T	Comment Status A			Comment Ty	pe T	Comment Status	Α	
	ssibly conflicting reference			Incorrect	reference to t	test method. Digits ap	pear transposed.	
	rements in a factory environ ng and more relevant to the			SuggestedRe	emedy			
	ng and more relevant to the	quanneation of c	able plant in the field.	00	, 61820-2-2 wit	th 61280-2-2.		
SuggestedRemedy	e test method is described i		with "Incortion loop	Response		Response Status	с	
	nstalled fiber cables are ma			ACCEPT			•	
Response	Response Status							
, ACCEPT.				C/ 141	SC 141.7.9	P <b>76</b>	L	# 421
				Dawe, Piers		Mellan	ЮХ	
C/ 141 SC 141.7	.2 P75	L18	# 128	Comment Ty	pe T	Comment Status	Α	
Remein, Duane	<b>-</b> .					111702 reference [	Dv and 111701/P	ER) don't apply to the 1
Cernein, Duane	Futurew	ei Technologies, I	nc.			k, 141.7.9.3 reference i	TX anu 141.7.9.4 (D	
,	Futurew Comment Status A	ei Technologies, I	nc.	Tx in an	ONU.	(, 141.7.9.3 reference r	<α and 141.7.9.4 (Β	
Comment Type <b>T</b>		0		Tx in an SuggestedRe	ONU. emedy		· ·	,,
Comment Type T	Comment Status	0		Tx in an SuggestedRe	ONU. emedy		· ·	ity and 141.7.11, SRS.
Comment Type T We should note tha SuggestedRemedy Add to the end of th signal specified in T	Comment Status A It Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16."	id 100GBASE-R	signal" in some instances.	Tx in an SuggestedRe Add text Response	ONU. emedy	clear, as it is in 141.7.1 Response Status	0, Receive sensitiv	,,
Comment Type T We should note tha SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response	Comment Status A It Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16."	id 100GBASE-R	signal" in some instances.	Tx in an SuggestedRe Add text Response ACCEPT Change	ONU. emedy to make this c IN PRINCIPI	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion	0, Receive sensitiv <b>C</b>	,,
Comment Type T We should note that SuggestedRemedy Add to the end of the signal specified in T Highlight Table 88- Response ACCEPT.	Comment Status A at Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16." 16 in forest green. Response Status C	id 100GBASE-R s	signal" in some instances.	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio	ONU. emedy to make this o TIN PRINCIPL 141.7.9 Trans	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion	0, Receive sensitiv <b>C</b> penalty (TDP)" to "	ity and 141.7.11, SRS.
Comment Type <b>T</b> We should note that uggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT.	Comment Status A at Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16." 16 in forest green. Response Status C	id 100GBASE-R	signal" in some instances.	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio	ONU. emedy to make this of IN PRINCIPL 141.7.9 Trans n penalty (TD	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion DP) for 25G"	0, Receive sensitiv C penalty (TDP)" to "- <i>L</i> 6	ity and 141.7.11, SRS. 141.7.9 Transmitter and
Comment Type T We should note tha SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT.	Comment Status A at Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16." 16 in forest green. Response Status C	id 100GBASE-R si signal is substitur	signal" in some instances.	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio	ONU. emedy to make this of TIN PRINCIPL 141.7.9 Trans n penalty (TD SC 141.7.9	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion PP) for 25G" P <b>76</b>	0, Receive sensitiv C penalty (TDP)" to " <i>L</i> 6	ity and 141.7.11, SRS. 141.7.9 Transmitter and
Comment Type T We should note that SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT. Cl 141 SC 141.7 Dawe, Piers Comment Type T	Comment Status A at Table 88-11 specifies "va he para "A valid 25G-EPON Table 88-16." 16 in forest green. Response Status C .4 P75	lid 100GBASE-R signal is substitut	signal" in some instances. red for the 100GBASE-R # 419	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio C/ 141 Dawe, Piers Comment Ty 141.7.9 (	ONU. emedy to make this of "IN PRINCIPL "141.7.9 Trans n penalty (TD SC 141.7.9 DE T TDP) reference	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion P) for 25G" <i>P</i> <b>76</b> Mellan <i>Comment Status</i>	0, Receive sensitiv C penalty (TDP)" to " <i>L</i> 6 lox A says "as defined ir	ity and 141.7.11, SRS. 141.7.9 Transmitter and # [ <u>420</u>
Comment Type T We should note that SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT. Cl 141 SC 141.7 Dawe, Piers Comment Type T ANSI/EIA-455-95 is	Comment Status A at Table 88-11 specifies "va ne para "A valid 25G-EPON Fable 88-16." 16 in forest green. Response Status C .4 P75 Mellano Comment Status A	lid 100GBASE-R signal is substitut	signal" in some instances. red for the 100GBASE-R # 419	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio C/ 141 Dawe, Piers Comment Ty, 141.7.9 ( x 10^-12'	ONU. Semedy to make this of TIN PRINCIPL 141.7.9 Trans n penalty (TD SC 141.7.9 SC 141.7.9 oe T TDP) reference . However, 1	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion P) for 25G" <i>P</i> <b>76</b> Mellan <i>Comment Status</i> ces 88.8.5 but 88.8.5.4	0, Receive sensitiv C penalty (TDP)" to " <i>L</i> 6 lox A says "as defined ir	ity and 141.7.11, SRS. 141.7.9 Transmitter and
Comment Type T We should note that SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT. C/ 141 SC 141.7 Dawe, Piers Comment Type T ANSI/EIA-455-95 is	Comment Status A at Table 88-11 specifies "va he para "A valid 25G-EPON Table 88-16." 16 in forest green. <i>Response Status</i> C .4 P75 Mellano <i>Comment Status</i> A s not in the normative refere	lid 100GBASE-R signal is substitut	signal" in some instances. red for the 100GBASE-R # 419	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio C/ 141 Dawe, Piers Comment Ty, 141.7.9 ( x 10^-12' SuggestedRe	ONU. Semedy to make this of TIN PRINCIPL 141.7.9 Trans n penalty (TD SC 141.7.9 SC 141.7.9 ope T TDP) reference However, 1 Semedy	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion DP) for 25G" <i>P</i> 76 Mellan <i>Comment Status</i> ces 88.8.5 but 88.8.5.4 41.7.9.4 says BER of	0, Receive sensitiv C penalty (TDP)" to " <i>L</i> 6 tox A says "as defined in 1 x 10^-2.	ity and 141.7.11, SRS. 141.7.9 Transmitter and # <u>420</u> n 52.9.10.4the BER of
Comment Type T We should note tha SuggestedRemedy Add to the end of th signal specified in T Highlight Table 88- Response ACCEPT. C/ 141 SC 141.7 Dawe, Piers Comment Type T ANSI/EIA-455-95 is SuggestedRemedy	Comment Status A at Table 88-11 specifies "va he para "A valid 25G-EPON Table 88-16." 16 in forest green. <i>Response Status</i> C .4 P75 Mellano <i>Comment Status</i> A s not in the normative refere	lid 100GBASE-R signal is substitut	signal" in some instances. red for the 100GBASE-R # 419	Tx in an SuggestedRe Add text Response ACCEPT Change dispersio C/ 141 Dawe, Piers Comment Ty, 141.7.9 ( x 10^-12' SuggestedRe Change	ONU. Semedy to make this of TIN PRINCIPL 141.7.9 Trans n penalty (TD SC 141.7.9 SC 141.7.9 oe T TDP) reference However, 1 Semedy with an optical	clear, as it is in 141.7.1 <i>Response Status</i> LE. smitter and dispersion DP) for 25G" <i>P</i> 76 Mellan <i>Comment Status</i> ces 88.8.5 but 88.8.5.4 41.7.9.4 says BER of	0, Receive sensitiv C penalty (TDP)" to " <i>L</i> 6 tox A says "as defined in 1 x 10^-2.	ity and 141.7.11, SRS. 141.7.9 Transmitter and # [ <u>420</u>

C/ 141 SC 141.7.9

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C/ 141	SC 141.7.9.2	P <b>76</b>	L <b>22</b>	# 97	C/ 141	SC 141.7.10	P <b>76</b>	L <b>47</b>	# 130
Anslow, P	ete	Ciena			Remein, D	uane	Futurewei	Fechnologies, Inc.	
Comment	Туре <b>т</b>	Comment Status A			Comment 7	<i>уре</i> <b>т</b>	Comment Status A		
0		(Equation 141-1) is the mini	mum of three term	IS:			se Chase . Here -> 141.7.2 fine Rx sensitive for test p		
	lambda*(1 - (132 lambda*(1 - (132				Suggestedl	Remedy			
When zero. When term is	lambda is greate lambda is less th always more ne	er than 1324 nm, the second nan 1324 nm, the second ar egative than the second term ond term has no effect on th	nd third terms are r n.	negative and the third	"The te sensitiv	ver sensitivity is st patterns in 75 vity."	defined for test patterns in 5.7.3 (10G) and Table 83-1 1" in forest green.		
		n for Dmax (Equation 141-2	) the second term	has no effect on the	Response		Response Status C		
	of Dmax and sho	ould be deleted.			ACCEF	T IN PRINCIPL	.E.		
Suggested					Comm	ant turna ahanga	d to "T"		
	ation (141-1) del	lete the second term 0.365*l	ambda*(1 - (1324/	lambda)^4) leaving:	Comme	ent type change			
				g.					
		ambda*(1 - (1324/lambda)^4			After ed	ditorial fixes			
Dmin = In Equ	= min(0, 0.465*la ation (141-2) del	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l	)) ambda*(1 - (1300/						
Dmin : In Equ Dmax	= min(0, 0.465*la ation (141-2) del	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^	)) ambda*(1 - (1300/		Change "Receiv	e ver sensitivity is	defined for test patterns in		
Dmin = In Equ Dmax Response	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l	)) ambda*(1 - (1300/		Change "Receiv "The te	e ver sensitivity is st patterns in 75	5.7.3 (10G) and 141.7.2 (25		
Dmin = In Equ Dmax Response ACCE	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT.	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b>	)) ambda*(1 - (1300/ 4))	lambda)^4) leaving:	Change "Receiv "The te "75.7.3	e ver sensitivity is st patterns in 75 " in forest green	5.7.3 (10G) and 141.7.2 (25 	5G) are used to tes	st receiver sensitivity."
Dmin : In Equ Dmax Response ACCE C/ 141	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC <b>141.7.9.4</b>	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b>	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b>		Change "Receiv "The te "75.7.3	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10	5.7.3 (10G) and 141.7.2 (25  P <b>76</b>		
Dmin = In Equ Dmax Response ACCE Cl 141 Remein, D	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC <b>141.7.9.4</b> Juane	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei Te	)) ambda*(1 - (1300/ 4))	lambda)^4) leaving: # [129	Change "Receiv "The te "75.7.3 <i>C</i> / <b>141</b> Dawe, Pier	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s	5.7.3 (10G) and 141.7.2 (25  P <b>76</b> Mellanox	5G) are used to tes	# 422
Dmin = In Equ Dmax Response ACCE Cl 141 Remein, D Comment	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC <b>141.7.9.4</b> Juane Type <b>E</b>	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei Te <i>Comment Status</i> <b>A</b>	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b> echnologies, Inc.	lambda)^4) leaving: # [ <u>129</u> bucket	Change "Receiv "The te "75.7.3 C/ 141 Dawe, Pier Comment 7	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s <i>Type</i> <b>E</b>	5.7.3 (10G) and 141.7.2 (25  P <b>76</b>	5G) are used to tes	st receiver sensitivity."
Dmin = In Equ Dmax Response ACCE Cl 141 Remein, D Comment This is	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC 141.7.9.4 Puane Type E the only instanc	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei Te	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b> echnologies, Inc.	lambda)^4) leaving: # [ <u>129</u> bucket	Change "Receiv "The te "75.7.3 C/ 141 Dawe, Pier Comment 7 Receive	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s <i>Type</i> <b>E</b> e sensitivity	5.7.3 (10G) and 141.7.2 (25  P <b>76</b> Mellanox	5G) are used to tes	# 422
Dmin : In Equ Dmax Response ACCE Cl 141 Remein, D Comment This is or an >	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC 141.7.9.4 Duane Type E the only instanc (MII lane.	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei Te <i>Comment Status</i> <b>A</b>	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b> echnologies, Inc.	lambda)^4) leaving: # [ <u>129</u> bucket	Change "Receiv "The te "75.7.3 C/ 141 Dawe, Pier Comment 7 Receive Suggested	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s <i>Sype</i> <b>E</b> e sensitivity Remedy	5.7.3 (10G) and 141.7.2 (25  P <b>76</b> Mellanox	5G) are used to tes	# 422
Dmin : In Equ Dmax Response ACCE C/ 141 Remein, E Comment This is or an S Suggested	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC <b>141.7.9.4</b> Puane <i>Type</i> <b>E</b> the only instanc tMII lane. <i>IRemedy</i>	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei To <i>Comment Status</i> <b>A</b> se of "lane" that doesn't appl	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b> echnologies, Inc.	lambda)^4) leaving: # [ <u>129</u> bucket	Change "Receiv "The te "75.7.3 C/ 141 Dawe, Pier Comment 7 Receive Suggested	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s <i>Type</i> <b>E</b> e sensitivity	5.7.3 (10G) and 141.7.2 (25 	5G) are used to tes	# 422
Dmin : In Equ Dmax Response ACCE C/ 141 Remein, E Comment This is or an S Suggested	= min(0, 0.465*la ation (141-2) del = max(0, 0.465*l PT. SC 141.7.9.4 Duane Type E the only instanc (MII lane.	ambda*(1 - (1324/lambda)^4 lete the second term 0.365*l lambda*(1 - (1300/lambda)^ <i>Response Status</i> <b>C</b> <i>P</i> 76 Futurewei To <i>Comment Status</i> <b>A</b> se of "lane" that doesn't appl	)) ambda*(1 - (1300/ 4)) <i>L</i> <b>44</b> echnologies, Inc.	lambda)^4) leaving: # [ <u>129</u> bucket	Change "Receiv "The te "75.7.3 C/ 141 Dawe, Pier Comment 7 Receive Suggested	e ver sensitivity is st patterns in 75 " in forest green SC 141.7.10 s Type E e sensitivity Remedy er sensitivity	5.7.3 (10G) and 141.7.2 (25  P <b>76</b> Mellanox	5G) are used to tes	# 422

C/ 141 SC 141.7.10 Page 32 of 103 9/17/2019 11:11:42 AM

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C/ 141 SC 141.7.12	P <b>77</b>	L12	# 424	C/ 141	SC 141.7.1	3.1	P <b>78</b>	L <b>7</b>	# 425
Dawe, Piers	Mellanox			Dawe, Pie	rs		Mellanox		
Comment Type T C	omment Status R			Comment	Туре Т	Comment	Status R		
"When measuring jitter at TF TP1[i] and TP5[i] in this clau		ive even recomm	nendations for jitter at			now Toff correct	tly. 15% does r	not come into it.	
uggestedRemedy				Suggested		the average pr	wor of OEE tra	nsmitter in the re	lovant tablo
Delete? Change to address	the jitter measurements	we do have (in S	SRS calibration)?			0.1			levant table.
Response Re REJECT.	esponse Status C			Response REJE		Response	Status C		
Per 141.3.2, measurements and are not to be used as co				In sub of Toff		3.2, Toff measu	urement does in	clude 15% thres	hold for measurement
141.7.12 on use of high pas				C/ 141	SC 141.7.1	3.2	0 <b>77</b>		# 131
compliance test points that r	a sector of the					•	P <b>77</b>	L <b>41</b>	
compliance test points that r			All transmitter	Remein, D	Duane			L <b>41</b> chnologies, Inc.	
measurements and tests de			All transmitter	Remein, D <i>Comment</i>					
measurements and tests de			All transmitter # 423	Comment	Туре Т	Comment	Futurewei Te <i>Status</i> <b>A</b>	chnologies, Inc.	ctrical signal at TP4'
measurements and tests de C/ 141 SC 141.7.12	fined in 141.7 are made	at TP2 or TP6.		Comment There	<i>Type</i> <b>T</b> is no TP4 in Fig	Comment	Futurewei Te <i>Status</i> <b>A</b>	chnologies, Inc.	strical signal at TP4'
measurements and tests de C/ 141 SC 141.7.12 Dawe, Piers	fined in 141.7 are made P <b>77</b>	at TP2 or TP6.		Comment There Suggested	<i>Type</i> <b>T</b> is no TP4 in Fig	Comment	Futurewei Te <i>Status</i> <b>A</b>	chnologies, Inc.	ctrical signal at TP4'
measurements and tests de C/ 141 SC 141.7.12 Dawe, Piers	fined in 141.7 are made <b>P77</b> Mellanox omment Status <b>R</b> cy jitter is a necessary pa	at TP2 or TP6. L <b>12</b>	# 423	Comment There Suggested Strike Response	<i>Type</i> <b>T</b> is no TP4 in Fig <i>IRemedy</i> "at TP4"	Comment gure 141-4: "the Response	Futurewei Te <i>Status</i> <b>A</b> e optical signal	chnologies, Inc.	ctrical signal at TP4'
measurements and tests de Cl 141 SC 141.7.12 Dawe, Piers Comment Type T C Filtering out the low frequent "recommended" or there is s	fined in 141.7 are made <b>P77</b> Mellanox omment Status <b>R</b> cy jitter is a necessary pa	at TP2 or TP6. L <b>12</b>	# 423	Comment There Suggested Strike Response	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4"	Comment gure 141-4: "the Response	Futurewei Te <i>Status</i> <b>A</b> e optical signal	chnologies, Inc.	ctrical signal at TP4'
measurements and tests de Cl 141 SC 141.7.12 Dawe, Piers Comment Type T C Filtering out the low frequent "recommended" or there is s	fined in 141.7 are made <b>P77</b> Mellanox omment Status <b>R</b> cy jitter is a necessary pasignificant ambiguity.	at TP2 or TP6.	# 423	Comment There Suggested Strike Response ACCE	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF	Comment gure 141-4: "the Response	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b>	chnologies, Inc.	ctrical signal at TP4'
measurements and tests de <b>1 141</b> SC 141.7.12 Dawe, Piers <i>comment Type</i> <b>T</b> C Filtering out the low frequent "recommended" or there is s <i>uggestedRemedy</i> Usually the same reference	fined in 141.7 are made P77 Mellanox omment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe	at TP2 or TP6.	# 423	Comment There Suggested Strike Response ACCE	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF	Comment gure 141-4: "the <i>Response</i> PLE. nverter and sco	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b>	chnologies, Inc.	trical signal at TP4'
measurements and tests de 2/ 141 SC 141.7.12 Dawe, Piers Comment Type T C Filtering out the low frequence "recommended" or there is a SuggestedRemedy Usually the same reference done by reference. We may need to say more, of	fined in 141.7 are made P77 Mellanox omment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe	at TP2 or TP6.	# 423	Comment There Suggested Strike Response ACCE Add T	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF P4 between cor SC <b>141.7.1</b>	Comment gure 141-4: "the <i>Response</i> PLE. nverter and sco	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b> ope.	chnologies, Inc. at TP3 to an elec	
measurements and tests de 2/ 141 SC 141.7.12 Dawe, Piers Comment Type T C Filtering out the low frequence "recommended" or there is a SuggestedRemedy Usually the same reference done by reference. We may need to say more, of	fined in 141.7 are made P77 Mellanox comment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe e.g. references to the jitte	at TP2 or TP6.	# 423	Comment There Suggested Strike Response ACCE Add T C/ 141	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF P4 between cor SC <b>141.7.1</b> nia, Marek	Comment gure 141-4: "the <i>Response</i> PLE. nverter and sco	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b> ope. <i>P</i> <b>77</b> Charter Com	chnologies, Inc. at TP3 to an elec	
measurements and tests de         2/ 141       SC 141.7.12         Dawe, Piers         Comment Type       T       C         Filtering out the low frequence         "recommended" or there is a         SuggestedRemedy         Usually the same reference         done by reference.         We may need to say more, or         Response       Re         REJECT.	fined in 141.7 are made P77 Mellanox omment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe e.g. references to the jitte esponse Status C	at TP2 or TP6.	# 423 on, it can't be left voked. This can be as J2.	Comment There Suggested Strike Response ACCE Add T C/ 141 Hajduczer Comment	<i>Type</i> <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF P4 between cor <i>SC</i> <b>141.7.1</b> nia, Marek <i>Type</i> <b>ER</b>	Comment gure 141-4: "the Response PLE. nverter and sco 3.2	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b> ope. <i>P</i> <b>77</b> Charter Comm <i>Status</i> <b>A</b>	chnologies, Inc. at TP3 to an elec	# 29
measurements and tests de         Cl 141       SC 141.7.12         Dawe, Piers         Comment Type       T       C         Filtering out the low frequence "recommended" or there is a         SuggestedRemedy         Usually the same reference done by reference.         We may need to say more, of Response	fined in 141.7 are made P77 Mellanox omment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe e.g. references to the jitte esponse Status C as derived from 10G-EP0	at TP2 or TP6.	# 423 on, it can't be left voked. This can be as J2.	Comment There Suggested Strike Response ACCE Add T C/ 141 Hajduczer Comment	Type <b>T</b> is no TP4 in Fig <i>Remedy</i> "at TP4" PT IN PRINCIF P4 between con SC <b>141.7.1</b> nia, Marek Type <b>ER</b> used and not in	Comment gure 141-4: "the Response PLE. nverter and sco 3.2 Comment	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b> ope. <i>P</i> <b>77</b> Charter Comm <i>Status</i> <b>A</b>	chnologies, Inc. at TP3 to an elec	# 29
measurements and tests de         Cl       141       SC       141.7.12         Dawe, Piers       T       C         Comment Type       T       C         Filtering out the low frequence       "recommended" or there is a         SuggestedRemedy       Usually the same reference         Usually the same reference.       We may need to say more, or         Response       Re         REJECT.       The specification method was	fined in 141.7 are made P77 Mellanox omment Status R cy jitter is a necessary pa- significant ambiguity. CRU as for several othe e.g. references to the jitte esponse Status C as derived from 10G-EP0	at TP2 or TP6.	# 423 on, it can't be left voked. This can be as J2.	Comment There Suggested Strike Response ACCE Add T C/ 141 Hajduczer Comment "can" ( Suggested Chang	Type T is no TP4 in Fig Remedy "at TP4" PT IN PRINCIF P4 between con SC 141.7.13 hia, Marek Type ER used and not in Remedy	Comment gure 141-4: "the Response PLE. nverter and sco 3.2 Comment tended per Styl	Futurewei Te <i>Status</i> <b>A</b> e optical signal <i>Status</i> <b>C</b> ope. <i>P</i> <b>77</b> Charter Comp <i>Status</i> <b>A</b> le Guide	chnologies, Inc. at TP3 to an elec <i>L</i> 42 munications	# 29

C/ 141 SC 141.7.13.2

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C/ 141 S	C 141.7.13.2	P <b>77</b>	L <b>49</b>	# 26	C/ 141	SC	141.7.14	P <b>78</b>	L <b>48</b>	# 132	
Hajduczenia, N	larek	Charter Comn	nunications		Remein, I	Duane		Futurewei Teo	hnologies, Inc.		
Comment Type	e ER	Comment Status A		must-vs-shall	Comment	Туре	Е	Comment Status A			bucket
"must" use	d and not intend	led per Style Guide			The ill	lustratio	n is Figure	141-5 not 141.7.13.2			
SuggestedRem	nedy				Suggested	dRemed	dy				
		he steady state optical OF			Chang	ge "141.	.7.13.2" to "	Figure 141–5"			
"Notice that	t only the stead	y state optical OFF power	is expected to b	e conformed"	Response	)		Response Status C			
Response		Response Status C			ACCE	PT.					
ACCEPT I	N PRINCIPLE.										
Change "N	otice that only th	he steady state optical OF	F power must be	e conformed" to	C/ 141		141.7.14	P <b>78</b>	L <b>48</b>	# 426	
		y state optical OFF power			Dawe, Pie			Mellanox			
C/ 141 S	C 141.7.13.2	P <b>78</b>	L1	# 98	Comment 141.7.		E	Comment Status A			bucket
Anslow, Pete		Ciena			Suggested		+v.				
Comment Type	e ER	Comment Status A		redraw	141.7.		<i>i</i> y				
		draft are appropriately dra	wn. However, a	number of the figures	Response			Response Status <b>C</b>			
	d as bit maps. everal drawback	s: the rendition of the figu	res is poor maki	ng small text difficult to	•		PRINCIPLE				
read, the us	se of bit maps ir	ncreases the file size unne	ecessarily, the te	ext content of the	//UUL						
		nd most importantly, inclu uired in Maintenance after			See c	ommen	t #132				
the next rev	0 1		the ligule has b		C/ 141	SC	141.7.14.2	P <b>79</b>	L <b>49</b>	# 27	
SuggestedRem	nedy				Hajduczer	nia, Mar	ek	Charter Comn	nunications		
		replacing figures that hav	e been pasted a	s bit maps with	Comment	Туре	ER	Comment Status A			
	at are drawn in		actor graphica (	a a love format) and	"must	" used a	and not inte	nded per Style Guide			
		strating equations, use a v in FrameMaker.	ector graphics (	e.gsvy lonnal) and	Suggested	dRemed	1v				
		b be replaced are Figures			Change "time must be met in the following scenarios" to "time is expected to be met in the					in the	
	8, 142-9, 142-13, 142-14, 142-15, 142-16, 142-18, 143-1, 143-2, 143-3, 143-4, 143-5, 143-6, 143-7, 143-7, 143-8, 143-9, 143-12, 143-13, 143-15, 143-16, 144-3, 144-4, 144-5, 144-6, 144-7,					ing scer		0	·		
		-11, 144-12, 144-13, 144-1			Response	9		Response Status C			
144-18, 144		44-22, 144-23, 144-24, 14			ACCE	PT.					
Response	F	Response Status W									
		•									

ACCEPT.

C/ 141 SC 141.7.14.2

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C/ 141 S	SC 141.9.1	P <b>8</b> 1	L10	# 55	C/ 141 SC 141.9.2	P <b>8</b> 1	L <b>25</b>	# 435
Kolesar, Paul		CommScope			Dawe, Piers	Mellanox		
Comment Typ Outdated		Comment Status <b>A</b> 51280-2-4:2000			Comment Type E Max Dispersion (at 20	Comment Status A		bucket
	dard was revis	ed in 2014. But the referenc nove ":2000" from the referen		lated to always imply	SuggestedRemedy Max dispersion (at 20 Similarly for Min	space km)		
Response ACCEPT.		Response Status C			Response ACCEPT.	Response Status C		
C/ 141 S	SC 141.9.2	P <b>81</b>	L17	# 369	C/ 141 SC 141.9.2	P <b>81</b>	L <b>28</b>	# 370
Dawe, Piers		Mellanox			Dawe, Piers	Mellanox		
SuggestedRei	in Table 141-	Comment Status A -21		bucket	Comment Type E sec- tion SuggestedRemedy Make the table full wi	Comment Status A		bucket
Response ACCEPT.		Response Status C			Response ACCEPT.	Response Status C		
C/ 141 S	SC 141.9.2	P <b>81</b>	L <b>25</b>	# 100				
Anslow, Pete		Ciena						
<i>Comment Typ</i> In Table 1		Comment Status <b>A</b> ' should be "20 km" (space be	etween a numbe	<i>bucket</i> er and its unit)				
SuggestedRer In Table 1	,	e "20km" to "20 km" (2 instan	ices)					
Response ACCEPT.		Response Status C						

C/ 141 SC 141.9.2

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C/ 141 SC 141.9.2 P81	L <b>30</b>	# 99	C/ 141	SC 141.	10.4.1	P <b>87</b>	L <b>24</b>	# 101		
nslow, Pete Ciena			Anslow, P	ete		Ciena				
omment Type E Comment Status A			Comment	Туре Е	Com	ment Status A			bucket	
The first sentence of footnote b to Table 141-21 is: "These dispersion requirements are satisfied by fibers specified in ITU–T G.652D (low water peak, dispersion unshifted SMF) and ITU–T G.657A (bend–insensitive SMF)." The two ITU-T Recommendations are G.652 and G.657. The 2016 version of G.652 (as referenced by the P802.3ca draft) contains specifications for two fiber types G.652.B and G.652.D (note the extra dot between 652 and the letter B or D). The 2009 version of G.657			The PICS proforma tables in 141.10.4.1 do not have the appropriate entries in the "Support" column. Same issue in 141.10.4.42 (OM10), 142.5.4, 142.5.5, 143.5.4.2, 144.5.4.1, 144.5.4.2, 144.5.4.4, 144.5.4.5 SuggestedRemedy							
										(as per the base standard) contains specifications for two fiber types G.657 Category A and G.657 Category B. The 2016 version of G.657 (not referenced) contains specifications for two fiber types G.657.A and G.657.B. Consequently, the first sentence of footnote b to Table 141-21 is incorrect. <i>SuggestedRemedy</i>
Change the first sentence of footnote b to Table 141-21 to either: "These dispersion requirements are satisfied by fibers specified in ITU–T G.652 (low water			"O.Number" change the Support entry to "Yes [ ] No [ ]" "O/Number" change the Support entry to "Yes [ ] No [ ]"							
peak, dispersion unshifted SMF) and ITU-T G.657 (b			Response			onse Status <b>C</b>	J[]			
or: "These dispersion requirements are satisfied by G.65	2.D fibers specif	ied in ITU–T G.652	ACCE		reep					
(low water peak, dispersion unshifted SMF) and G.657 Category A fibers specified in ITU–T G.657 (bend–insensitive SMF)."		C/ 141	SC 141.	10.4.42	P101	L <b>43</b>	# 102			
or: "These dispersion requirements are satisfied by G.65	2.D fibers speci	ied in ITU–T G.652	Anslow, P	ete		Ciena				
(low water peak, dispersion unshifted SMF) and G.657.A fibers specified in ITU–T G.657 (bend–insensitive SMF)." and change the reference in 1.3 to be for the 2016 version of G.657			Comment Type E Comment Status A bucket PICS items begin with a "*" when they are referenced by another PICS item in the Status column. "OM10" does not appear in any other Item, so should not begin with a "*"						<i>bucket</i> atus	
Response Response Status C			Suggested					login mara		
ACCEPT IN PRINCIPLE.				Change "*OM10" to "OM10"						
"These dispersion requirements are satisfied by G.652.D fibers specified in ITU–T G.652 (low water peak, dispersion unshifted SMF) and G.657.A fibers specified in ITU–T G.657 (bend–insensitive SMF)."			Response ACCE		Respo	onse Status <b>C</b>				
		C/ 142	SC 142		P <b>103</b>	LO	# 290			
and update the reference in 1.3 to be for the 2016 ver	ion of G.657		Wienckow	vski, Natalie		General Moto	ors			
				<i>Type</i> <b>E</b> are change		ment Status A	at should not be t	here.	bucket	
			Suggested	Remedy						
			Remo	ve change b	ars on pages	103 through 179				
			Response ACCE		Resp	onse Status <b>C</b>				

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/ 142 SC 142.1	P103	L19	# 289	C/ 142	SC 142	.1	P105	L <b>1</b>	# 267	
/ienckowski, Natalie	General Motor	rs		Kramer, G	ilen		Broadcom			
omment Type E	Comment Status D			Comment	Туре Т	(	Comment Status A			
	spaces in number that have 4 he 2014 IEEE-SA Style Manus		o the right of the	1) BER Monotor block is missing in Figure 142-2.						
uggestedRemedy Change: 25.78125 To: 25.781 25				Proces	SS.		n and Receive Process s		ply PCS Synchronize	
	)7 L31, P109 L41, P138 L17, I	P138 L18,		3) The	receve an	d transmit	paths need to be labelle	a.		
roposed Response PROPOSED REJECT	Response Status Z			confus		of these fu	going to 64B/66B encode nctions provides output o ate.			
This comment was WI	THDRAWN by the commenter	r.		Suggested	Remedy					
				Update	e the figure	142-2 as	shown in kramer_3ca_3	_0719.pdf		
/ 142 SC 142.1	P105	L <b>1</b>	# 371	Response		R	esponse Status C			
awe, Piers	Mellanox			ACCE	PT.					
omment Type ER	Comment Status A		redraw	C/ 142	SC 142	.1.1.1	P103	L <b>29</b>	# 490	
Per style manual "WG output".	s should create their figures us	sing programs t	hat create vector	Law, David	d		Hewlett Pack	ard Enterprise		
iggestedRemedy				Comment	Туре Т	२ (	Comment Status A			
Import the figure a diffe	erent way, or draw it in Frame. 13, 15 and 16, 144-3 to 18, 2 <i>Response Status</i> <b>C</b> .E.			referer ParityL back to	nced subcla _eft > 0 use o the OUTF	ause 21.5. ed on the t PUT_PAR	dence defined in subclau It is therefore unclear if ransition from the OUTP ITY_PLACEHOLDERS s eans (ClkXfr AND ParityL	an equations suc UT_PARITY_PL tate in Figure 14	ch as ČlkXfr AND ACEHOLDERS state 2–11 'PCS Framer	
0				Suggested	Remedy					
See comment #98				Add br conditi		necessary	to clarify the order used	to evaluate state	e diagram transition	
				Response		R	esponse Status <b>C</b>			
				ACCE	PT IN PRI	NCIPLE.				
							ecedence, per a/public/meeting_archive	/2019/07/kramer	_3ca_6_0719.pdf	

C/ 142 SC 142.1.1.1 Page 37 of 103 9/17/2019 11:11:42 AM

#### IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

2/ <b>142</b> S	SC 142.1.1.1	P103	L <b>34</b>	# 491	C/ 142	SC	142.1.1.3	P <b>105</b>	L16	# 134
aw, David		Hewlett Packa	ard Enterprise		Remein,	Duane		Futurewei Te	echnologies, Inc.	
omment Type	e <b>TR</b> Co	mment Status A			Comment	Туре	TR	Comment Status A		
follows the	e conventions in 21.	agrams' states that 'Th 5.' yet Figure 142–10 'I	PCS Input Proces	s State Diagram', as		gnmen blocks		ig 142-2, 142-5 and text. N	lostly in block siz	es transferred between
		BI_EQ AND TxNext !=   RESET_XBUF state. A			Suggeste	dReme	dy			
21.5 the '*' diagrams v	' symbol is used to	represent a Boolean Al 02.3ca correctly follow t	ND (see Table 21	<ol> <li>Other state</li> </ol>		Proces		"Note: block sizes exclude mer Process and PCS Tra		
uggestedRen	medy				Response	9		Response Status C		
	•	ntions in 21.5 througho	ut the IEEE P802	.3ca draft.	ACCE	EPT IN	PRINCIPLE	Ξ.		
	IN PRINCIPLE.	ponse Status C			are b		nsmitted ar	d the following note: "NOTE ad does not show the bit that		
		the state diagrams fol grams follows the conve			C/ 142	SC	142.1.1.3	P105	L <b>42</b>	# 372
	wing subclauses."				Dawe, Pi	ers		Mellanox		
/ 142 S	SC 142.1.1.3	P105	L <b>3</b>	# 133	Comment	Туре	т	Comment Status R		
Remein, Duan			chnologies, Inc.					esses bits n through m inclu		
comment Type		mment Status A	intelogice, me.					too perverse. Isn't the sou big end is "first"?	mething.7:0 style	that we see in e.g.
51		t "@ 2x390.625 MHz" (	2x) is only correct	for 25GMII. The	Suggeste					
illustration	specifies xMII and	should therefore be rat	te agnostic.		00			veird than Ethernet bit orde	ring already is	
		VHz" (3x), and "@(257 y disagree with Figure		Furthermore, while					and an early 13	
uggestedRen		, alongioo mari igulo			Response REJE			Response Status C		
00		ure with notes as follow	15.		REJE	01.				
1) For 250 2) For 25 (	GMII rate is 2x390.6 Gb/s PCS rate is 97	25 MHz, for XGMII rate 7.65625 MHz, for 10 Gb 5781.25/257) MHz, for	e is 2x156.25 MHz b/s PCS rate is 39	.0625 MHz.				s this text clarifies the vector d to resubmit this comment		
Response	Res	ponse Status C								
ACCEPT I	IN PRINCIPLE.									
First, these	e are not rates, the	se are clock frequencie	es.							
"NOTE-All Gb/s. For	I clock frequencies i PCS devices suppo	the entire diagram, it i in this diagram are sho orting the nominal MAC by a multiplicative coef	wn for the nomina data rate of 10 G	al MAC data rate of 25						

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

C/ 142 SC 142.1.1.3 Page 38 of 103 9/17/2019 11:11:43 AM

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C/ 142 SC 142.1.1.3	P105	L <b>45</b>	# 373	C/ 142	SC 142.	.1.1.4	P106	L1	# 494
Dawe, Piers	Mellanox			Brandt, Dav	vid		Rockwell Au	tomation	
Comment Type <b>T</b> Comr	ment Status A			Comment T	ype E		Comment Status R		post-deadlin
This says "Refer to 3.1 for the c shows LSB first, specifically for		dering." 3.1 itself	f doesn't help, 3.1.1	"State o	liagram co	onventio	e a separate set of "State ons", where some of the op uld reference a consistent	erators are defi	ined. If additions were
SuggestedRemedy What is this trying to tell us in th	e context of a PCS	not a MAC2			forward.				
-				Suggested	Remedy				
	onse Status C			Merge I	new opera	tors into	a Clause 1.2.1. Reference	e this clause.	
ACCEPT IN PRINCIPLE.				Response			Response Status C		
The specific text "Refer to 3.1 for of 3.1, and it should be part of b				REJEC	Т.				
clarify that when a vector is trea significance than bit m. The TF has decided to combine reference this subclause from or conventions in different clauses.	all conventions use ther .3ca clauses, ra . Since vector notatio	d in .3ca into a si ther than duplica ons are used thro	ingle subclause and ting identical bughout multiple	distribu associa decideo It is not	ted across ted with si I to clean t possible t	s multipl tate diag the conv to go an	th existing definitions is the e clauses, building a config gram conventions. Rather ventions up and make the d retroactively fix the prob	using lattice of c than rely on tha n non-ambiguor lem, primarily b	overlapping requirements at, the Task Force us.
clauses, it is made part of this s appropriate.	ubclause and we fee	el that referencing	g subclause 3.1.1 is		Aaintenan				
clauses, it is made part of this s	ubclause and we fee P105	el that referencing	g subclause 3.1.1 is # <u>30</u>			ce Task		L <b>31</b>	# [493
clauses, it is made part of this s appropriate.		L51		by the N	Aaintenan SC 142	ce Task	Force.	L <b>31</b>	
clauses, it is made part of this s appropriate. C/ 142 SC 142.1.1.4 Hajduczenia, Marek	P105	L51		by the N C/ 142	Maintenan SC <b>142</b> . <i>r</i> id	ce Task	Force.	L <b>31</b>	
clauses, it is made part of this s appropriate. C/ 142 SC 142.1.1.4 Hajduczenia, Marek	P <b>105</b> Charter Comr ment Status <b>A</b>	L51	# 30	by the N C/ 142 Brandt, Dav Comment 7	Maintenan SC <b>142</b> . <i>r</i> id <i>type</i> <b>E</b>	ce Task .1.1.4	Force. P <b>106</b> Rockwell Au	L <b>31</b> tomation	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. C/ 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per	P <b>105</b> Charter Comr ment Status <b>A</b>	L51	# 30	by the N C/ 142 Brandt, Dav Comment 7	Aaintenand SC 142. vid ype E lent opera	ce Task .1.1.4	Force. P106 Rockwell Au Comment Status A	L <b>31</b> tomation	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. C/ 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm	P <b>105</b> Charter Comr <i>ment Status</i> <b>A</b> Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the M Cl 142 Brandt, Day Comment T Decrem Suggestedf	Aaintenand SC 142. vid ype E lent opera Remedy	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A	L <b>31</b> tomation en first "-' and se	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. C/ 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comr "can" used and not intended per SuggestedRemedy	P <b>105</b> Charter Comr <i>ment Status</i> <b>A</b> Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the M Cl 142 Brandt, Day Comment T Decrem Suggestedf	Aaintenand SC 142. vid ype E lent opera Remedy	ce Task .1.1.4 tor has	Force. P106 Rockwell Au <i>Comment Status</i> A no apparent space between font with a break between	L <b>31</b> tomation en first "-' and se	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P <b>105</b> Charter Comr <i>ment Status</i> <b>A</b> Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the M C/ 142 Brandt, Dav Comment T Decrem Suggestedf Use a c	Aaintenand SC 142. vid iype E lent opera Remedy lash chara	ce Task .1.1.4 tor has	Force. P106 Rockwell Au <i>Comment Status</i> A no apparent space betwee	L <b>31</b> tomation en first "-' and se	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition"	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N C/ 142 Brandt, Dav Comment T Decrem Suggestedh Use a c Response ACCEF	Aaintenand SC 142. vid ype E eent opera Remedy lash chara T.	ce Task .1.1.4 tor has	Force. P106 Rockwell Au <i>Comment Status</i> A no apparent space between font with a break between <i>Response Status</i> C	L31 tomation en first "-' and se characters.	# 4 <u>93</u> post-deadline; bucke econd "-".
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N Cl 142 Brandt, Dav Comment T Decrem SuggestedH Use a c Response ACCEF Cl 142	Aaintenand SC 142. rid iype E leent opera Remedy lash chara T. SC 142.	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107	L <b>31</b> tomation en first "-' and se	# 493 post-deadline; bucke
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N C/ 142 Brandt, Dav Comment T Decrem Suggestedh Use a c Response ACCEF C/ 142 Dawe, Piers	Aaintenand SC 142. vid ype E lent opera Remedy lash chara T. SC 142.	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107 Mellanox	L31 tomation en first "-' and se characters.	# [ <u>493</u> post-deadline; bucke econd "-".
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N Cl 142 Brandt, Dav Comment T Decrem SuggestedH Use a c Response ACCEF Cl 142	Aaintenand SC 142. vid ype E lent opera Remedy lash chara T. SC 142. Sype T	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107	L31 tomation en first "-' and se characters.	# 4 <u>93</u> post-deadline; bucke econd "-".
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N C/ 142 Brandt, Dav Comment T Decrem Suggestedh Use a c Response ACCEF C/ 142 Dawe, Piers Comment T	Aaintenand SC 142. vid iype E eent opera Remedy lash chara T. SC 142. S iype T tandard	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107 Mellanox	L31 tomation en first "-' and se characters.	# 4 <u>93</u> post-deadline; bucke econd "-".
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N C/ 142 Brandt, Dav Comment T Decrem Suggestedf Use a c Response ACCEF C/ 142 Dawe, Piers Comment T in this s	Aaintenand SC 142. vid iype E leent opera Remedy lash chara T. SC 142. Sype T tandard Remedy	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107 Mellanox	L31 tomation en first "-' and se characters.	# [ <u>493</u> post-deadline; bucke econd "-".
clauses, it is made part of this s appropriate. Cl 142 SC 142.1.1.4 Hajduczenia, Marek Comment Type ER Comm "can" used and not intended per SuggestedRemedy Change "straightforward and can replaced by addition" Response Respo	P105 Charter Comm ment Status A Style Guide	L <b>51</b> nunications	# 30 can-vs-may	by the N Cl 142 Brandt, Dav Comment 7 Decrem Suggestedf Use a c Response ACCEF Cl 142 Dawe, Piers Comment 7 in this s Suggestedf	Aaintenand SC 142. vid iype E leent opera Remedy lash chara T. SC 142. Sype T tandard Remedy	ce Task .1.1.4 tor has	Force. P106 Rockwell Au Comment Status A no apparent space between font with a break between Response Status C P107 Mellanox	L31 tomation en first "-' and se characters.	# [ <u>493</u> post-deadline; bucke econd "-".

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

C/ 142 SC 142.1.1.5 Page 39 of 103 9/17/2019 11:11:43 AM

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C/ 142 SC 142.1.2	P <b>107</b>	L <b>27</b>	# 375		C/ 142	SC 142	2.1.3	P <b>108</b>	L <b>4</b>	# 136
Dawe, Piers	Mellanox				Remein, D			Futurewei Tec	hnologies, Inc.	
Comment Type E	Comment Status A	in the Cast and is		bucket	Comment			Comment Status A		bucket
	EQT in this clause, and this	is the first proje	ct to use EQ1			•	cated 4-	5 lines above.		
SuggestedRemedy					Suggested					
Say what it is, e.g. with	a cross-reference.				Strike	the duplica	ate text			
Response	Response Status C				Response			Response Status C		
ACCEPT IN PRINCIPLI					ACCEI	PT.				
Add a cross reference to	o 1.4.245b.				C/ 142	SC 142	2.1.3.1	P109	L <b>24</b>	# 449
C/ 142 SC 142.1.2	P <b>107</b>	L <b>34</b>	# 135		Nicholl, Sh	nawn		Xilinx		
Remein, Duane	Futurewei Tech	hnologies, Inc.			Comment	Туре Е		Comment Status A		subscrip
Comment Type E	Comment Status A			bucket				e notation 0x1-(55)32. Is this where else?	sub-script notati	on defined in the
	imits" should be "aforementio	ned delay variat	tion limits		Suggested	Remedy				
SuggestedRemedy						le remedie				
per comment	_				,	te a comm sentence		nilar to 49.2.4.1 Notation con	ventions) that "If	he subscript in the
Response	Response Status C							hole value without short-han	d notation	
ACCEPT.					Response			Response Status C		
C/ 142 SC 142.1.3	P107	L <b>28</b>	# 291		ACCEI	PT IN PRI	NCIPLE			
Nienckowski, Natalie	General Motors	s			See co	omment #4	488			
Comment Type E	Comment Status D							<b>B</b> + + +		
	baces in number that have 4 d		the right of the		C/ 142	SC 142	2.1.3.1	P109	L <b>24</b>	# 376
•	e 2014 IEEE-SA Style Manua	al.			Dawe, Pier			Mellanox		
SuggestedRemedy					Comment			Comment Status A		subscript
Change: 10.3125 To: 10.312 5					,	5)32 - eh?				
	9 L42, P138 L18, P138 L19,				Suggested					
Proposed Response	Response Status Z						e 32, or	55 repeated 32 times, or what	at? Be clearer.	
PROPOSED REJECT.					Response			Response Status C		
					ACCEI	PT IN PRI	NCIPI F			
This comment was W/IT	HDRAWN by the commenter									

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

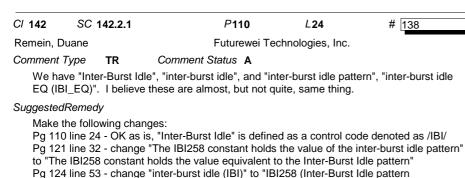
C/ 142 SC 142.1.3.1 Page 40 of 103 9/17/2019 11:11:43 AM

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<b>142</b> SC <b>142.1.3.1</b> P <b>109</b> L <b>28</b> # 4 <u>50</u>	C/ 142 SC 142.2 P111 L1 # 452
choll, Shawn Xilinx	Nicholl, Shawn Xilinx
mment Type E Comment Status A	Comment Type E Comment Status A redr
Use of hyphens in a hex value is somewhat rare in the standard (101.3.3.1.6 contains some value that include hypens; 103.3.5.1 also). Most of the time hex values are written without hyphens. Consider to remove the hyphens.	Blurry diagrams. "Figure 142-5 Transmit bit ordering" is blurry. "Figure 142-6 FEC encoder" is blurry. "Figure 142-9 Omega Network 256 Interconnection Network" is blurry. Other diagrams are blurry.
ggestedRemedy	SuggestedRemedy
Possible remedies:	Generate new figures that are crisp.
<ol> <li>Replace "0x1-BF-40-18" with "0x1BF4018"</li> <li>Create a table like "Table 119-2 - 400GBASE-R alignment marker encodings" that contains the values, delimited with commas</li> </ol>	Response Response Status C ACCEPT IN PRINCIPLE.
sponse Response Status C	See comment #98
ACCEPT IN PRINCIPLE.	Cl 142 SC 142.2.1 P110 L7 # 137
See comment #488	Remein, Duane Futurewei Technologies, Inc.
142 SC 142.2 P109 L39 # 377	Comment Type E Comment Status A buck
we, Piers Mellanox	While this is a nice nostalgic carry-over from the previous century the term "tx_raw" is not
mment Type T Comment Status A	defined in the clause and really adds no value.
As 802.3 uses "b/s" for the payload rate (MAC data rate), saying "25.78125 Gb/s rate" is misleading.	SuggestedRemedy Strike both instance of "tx_raw" (here and on pg 124 line 42).
ggestedRemedy	Response Response Status C
25.78125 GBd Several similar instances.	ACCEPT.
sponse Response Status C	
ACCEPT IN PRINCIPLE.	
Change all instances of "25.78125 Gb/s" to "25.78125 GBd"	
Change all instances of "25.78125 Gb/s" to "25.78125 GBd" Change all instances of "10.3125 Gb/s" to "10.3125 GBd"	

C/ 142 SC 142.2.1 Page 41 of 103 9/17/2019 11:11:43 AM

#### IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments



equivalent)"

Pg 161 line 50 - change "this channel generates only inter-burst idles towards the xMII." to "the MCRS generates only IBI\_EQ for this channel towards the xMII."

Pg 163 all lines OK as is.

Response Response Status C

ACCEPT IN PRINCIPLE.

Comment type changed to "T"

Terminology:

inter-burst idle – a general reference to a region or time interval between bursts. In MCRS, the inter-burst idle region is filled with IBI\_EQs. In PCS, this region is filled with IBI258 blocks.

Inter-Burst Idle – the name of a xGMII control character, as defined in Table 144-2. /IBI/ -shorthand notation for Inter-Burst Idle control character IBI EQ – an EQ that represents an inter-burst idle

Changes to the draft:

Pg 110 line 24 - OK as is, no changes needed

Pg 121 line 32 -- Use the following definition instead:

"The IBI258 constant represents an inter-burst idle block that is generated by the PCS Framer Process in the absence of any burst framing blocks, data blocks, or FEC Parity blocks."

Pg 124 line 53 -- Change "The PCS Framer Process monitors data from the InputFifo and transfers it to the TxFifo, inserting inter-burst idle (IBI), SyncPattern, parity placeholders (PAR\_PLACEHLDR), and EBD258 as appropriate." to read "The PCS Framer Process monitors data from the InputFifo and transfers it to the TxFifo, inserting inter-burst idle blocks (IBI258), SyncPattern, parity placeholders (PAR\_PLACEHLDR), and EBD258 as appropriate."

Replace two instances of IBI on page 125 with IBI258. Make sure IBI258 and EBD258 is

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

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italicized.

Pg 161 line 50 -- Use the following text:

"The channel transmits the envelopes or inter-envelope idle EQs (<i>IEI\_EQ</i> values) in the absence of envelopes. When set to false, transmission on channel ch is prohibited and this channel generates only inter-burst idle EQs (<i>IBI\_EQ</i> values) towards the xMII."

Pg 163 line 2 -- Italicize <i>IEI\_EQ</i> and <i>IBI\_EQ</i>, no other changes needed.

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/ 142 SC 142.2.2 P110 L36 # 268	C/ 142 SC 142.2.3 P110 L40 # 451						
ramer, Glen Broadcom	Nicholl, Shawn Xilinx						
omment Type TR Comment Status A	Comment Type T Comment Status A						
The following statement is ambiguous:	Consider to clarify that the four input blocks to the transcoder are already scrambled.						
"In the OLT, at the beginning of each burst, the descrambler is initialized with the lower 58 bits of the unscrambled value of IBI_EQ, i.e., bits s[0] through s[57] as shown in Figure 142–14 (see 143.3.3.3)."	SuggestedRemedy Replace "four consecutive 64B/66B" with "four consecutive scrambled 64B/66B"						
This specific reference to IBI_EQ (143.3.3.3) points to 72-bit version (Value: 0x0A-0A-0A-0A-0A-0A-0A-0A-0A-0A-0A-0A-0A-0	Response     Response Status     C       ACCEPT.     C						
However, the original intention was to use the 64B/66B encoded value of IBI_EQ, because	This is a technical comment. Type changed to "T"						
the scrambler ever sees only the 64b/66b encoded blocks. So, if we assume that the seed should be the 64B/66B encoded IBI_EQ, then it would have the following value:	C/ 142 SC 142.2.4.1 P112 L1 # 139						
0x2-85-42-A1-50-28-14-1E (full 64b/66b Encoded IEI_EQ: 0x0A-85-42-A1-50-28-14-1E)	Remein, Duane Futurewei Technologies, Inc.						
(1011 040/000 Elicoded IEI_EQ: 0X0A-03-42-A1-30-20-14-1E)	Comment Type E Comment Status A buc						
In either case, it is just an unnecessarily indirect definition for what needs to be a pre- defined constant. We shall clarify the value to be used and simply specify a 58-bit seed	In most cases we use "parity-check" (with a hyphen). Here and in a few other locations w omit the hyphen. We should be consistent.						
constant.	SuggestedRemedy						
uggestedRemedy	Change the following instances of "parity check" with "parity-check":						
Use the following text on page 110, lines 35-36: "In the ONU, at the beginning of each burst, the scrambler is initialized with the value of	pg line 112 1						
0x3-FF-FF-FF-FF-FF-FF-FF, i.e., each of the bits s0 through s57 is set to 1 (see Figure	114 48						
49–8)."	115 1 116 12						
Use the following text on page 128, lines 34-35:	Response Response Status C						
"In the OLT, at the beginning of each burst, the descrambler is initialized with the value of 0x3-FF-FF-FF-FF-FF-FF, i.e., each of the bits s0 through s57 is set to 1 (see Figure	ACCEPT.						
49–8)"	C/ 142 SC 142.2.4.1 P112 L3 # 292						
esponse Response Status C ACCEPT IN PRINCIPLE.	Wienckowski, Natalie General Motors						
	Comment Type E Comment Status D						
Use the following text on page 110, lines 35-36: "In the ONU, at the beginning of each burst, the scrambler is initialized with the value of	Missing non-breaking spaces in number that have 4 or more digits to the left of the decir per 13.3.2 of the 2014 IEEE-SA Style Manual.						
0x3-(FF) <sub>7</sub> , i.e., each of the bits S0 through S57 is set to 1 (see Figure 49–8)."	SuggestedRemedy						
Use the following text on page 128, lines 34-35: "In the OLT, at the beginning of each burst, the descrambler is initialized with the value of	Change: = 3072 × 17664 To: = 3 072 × 17 664						
0x3-(FF) <sub>7</sub> , i.e., each of the bits S0 through S57 is set to 1 (see Figure 49–8)"	Proposed Response Response Status Z						
	PROPOSED REJECT.						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 142
 Page 43 of 103

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 142
 9/17/2019 11:11:43 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 142
 9/17/2019 11:11:43 AM

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

CI 142 SC 142.2.4	l.1 <i>P</i> 112	L <b>4</b>	# 140	C/ 142	SC 142.2.4.	1 <i>P</i> 114	L39	# 442
Remein, Duane		chnologies, Inc.		Powell, Willi		Nokia		" "
Comment Type E	Comment Status A		bucket	Comment Ty		Comment Status A		
The "H" in " matrix in italics. Same for o "S", "P", "M", "N", "N "i", and "k" (in K+1) s	H composed by a" and "Ai, other occurrences in these term max", "R", "Rmax", "u", "u1", "u ccatter throughout the text and I	s, "ai,j", "(I,j)", "H 2", "uK", "p", "p1"	rices Ai,j:" should be c", "Z", "K", "Kmax", , "p2", "pM", "T", "c",	Replace "Editor's	, this note: Note (to be r files to be ac	emoved prior to publication): L dded here prior to publication."		ile containing machine
-	ure 142–13—FEC decoder.			with:	cificay			
SuggestedRemedy					Note - Later	move this file to: http://standa	rds.ieee.org/dow	/nloads/802.3/ "
per comment				Response		Response Status C		
Response ACCEPT.	Response Status C			ACCEP	IN PRINCIP	LE.		
Cl 142 SC 142.2.4 Hajduczenia, Marek Comment Type ER "can" used and not ii	I.1 P112 Charter Com <i>Comment Status</i> A ntended per Style Guide	L13 munications	# <u>31</u> can-vs-may	Editor's files will publishe The afor	be d under http:/ ementioned f	itorial note to emoved prior to publication): Ai //standards.ieee.org/downloads iles are accessible right now a /g/3/ca/index.shtml	s/802.3/ in a mad	
SuggestedRemedy				The sam	e text to be u	used on page 249, line 50, and	page 118, line 1	l
	check matrix can be described i ribed in its compact form"	in its compact forn	n" to "The parity-	C/ 142	SC 142.2.4.	1 <i>P</i> 114	L <b>39</b>	# 276
Response	Response Status C			Marris, Arthu	ır	Cadence Des	ign Systems	
ACCEPT.	,			Comment Ty	pe ER	Comment Status A		
						(to be removed prior to publica s to be added here prior to pub		e CSV file containing
				SuggestedR	emedy			
						(to be removed prior to publica s to be added here prior to pub		e CSV file containing
				Similar p	roblem on pa	age 249 line 51.		
				Response		Response Status C		
				ACCEP	IN PRINCIP	I F		

C/ 142 SC 142.2.4.1 Page 44 of 103 9/17/2019 11:11:43 AM

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

	<b>D</b> 444	1.40	//	01.4.40	00 440 0 4 0	D444	1 50	"
/ 142 SC 142.2.4.2		L <b>49</b>	# 293	C/ 142	SC 142.2.4.2	P114	L <b>53</b>	# 295
/ienckowski, Natalie	General Motors				rski, Natalie	General Motor	S	
Comment Type E Missing non-breaking s per 13.3.2 of the 2014 I	Comment Status D paces in number that have 4 or IEEE-SA Style Manual.	more digits to t	he left of the decimal	Comment Missin per 13	g non-breaking s	Comment Status D paces in number that have 4 EEE-SA Style Manual.	or more digits to	the left of the decim
SuggestedRemedy				Suggested	Remedy			
Change: 14592 To: 14 592 Also on P114 L54				Chang To: 14	je: 14392 ⊦392			
	Deserves Status 7			Proposed	,	Response Status Z		
Proposed Response PROPOSED REJECT.	Response Status Z			PROP	OSED REJECT.			
	THDRAWN by the commenter.			This co	omment was WIT	HDRAWN by the commenter	r.	
				C/ 142	SC 142.2.4.2	P115	L <b>5</b>	# 296
C/ 142 SC 142.2.4.2		L <b>51</b>	# 294	Wienckow	ski, Natalie	General Motor	S	
Vienckowski, Natalie	General Motors			Comment	Туре Е	Comment Status D		
Comment Type E Missing non-breaking s per 13.3.2 of the 2014 I	Comment Status <b>D</b> paces in number that have 4 or IEEE-SA Style Manual.	more digits to t	<i>bucket</i> he left of the decimal	per 13	.3.2 of the 2014 I	paces in number that have 4 EEE-SA Style Manual.	or more digits to	the left of the decin
SuggestedRemedy	,			Suggested	-			
Change: 17664 To: 17 664				To: 16				
Proposed Response	Deepense Status 7			Proposed		Response Status Z		
REJECT.	Response Status Z			PROP	OSED REJECT.			
	THDRAWN by the commenter.			This co	omment was WIT	HDRAWN by the commenter	r.	
				C/ 142	SC 142.2.4.2	P116	L <b>5</b>	# 141
				Remein, D	Juane	Futurewei Tec	hnologies, Inc.	
				Comment	Type <b>TR</b>	Comment Status A		
				What o	does (Pi to the -1	power)"info(u*)" and (Pi)parit	y(p")" mean?	
				Suggested	Remedy			
					definition of this t an offer no inform	erm. Unfortunately I have no ed suggestions	idea what such	a definition would b
				Response		Response Status <b>C</b>		
					PT IN PRINCIPL	, -		

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C/ 142 SC	142.2.4.2	P116	L <b>5</b>	# 379	C/ 142 SC 142	. <b>2.4.2</b>	D116 L	18 #	381
Dawe, Piers		Mellanox			Dawe, Piers	Ме	llanox		
Comment Type	TR	Comment Status A			Comment Type E	Comment State	us A		
l don't know	what you me	an by pi-1info. Similar prot	lem at line 9.		is comprised of				
SuggestedReme	edy				SuggestedRemedy				
Explain, or b	better, use mo	re familiar notation			comprises				
Response		Response Status U			consists of contains				
	PRINCIPLE.				is composed of or possibly other a	alternatives			
1)≺sub>info u* to u"." an	repres d also append	ence to the end of the para ents the de-interleaver ma I the following sentence to s/sub> represents the inter	oping of information	on bits that permutes agraph on Page 116,	Response ACCEPT IN PRIN	Response Statu ICIPLE.	ıs <b>C</b>		
permutes p"				i parity bits that	Use "comprises"				
C/ 142 SC	142.2.4.2	P116	L <b>7</b>	# 380	C/ 142 SC 142	.2.4.3	P <b>116</b>	24 #	143
Dawe, Piers		Mellanox			Remein, Duane	Fu	turewei Technolog	jies, Inc.	
Comment Type	т	Comment Status A			Comment Type T	Comment Stat	us <b>D</b>		
SuggestedReme ? Response		Response Status <b>C</b>			to encoding/deco	d in the following: here: "De-interleaver" r ding sequence (including coding/decoding sequen	g user and parity).	"Interleaver"	
•	PRINCIPLE.				SuggestedRemedy				
					Change to:	" <b>D</b> · · · · "	<b>.</b>		
replace "mat	trix H, which is	s then" with "matrix H, and	p" is then"			here: "De-interleaver" r ence (including user and			
C/ 142 SC	3142.2.4.2	P <b>116</b>	L16	# 142		quence to transmitted s			
Remein, Duane		Futurewei Teo	hnologies, Inc.		Proposed Response	Response Statu	is <b>Z</b>		
Comment Type	т	Comment Status A			REJECT.				
This seems	a bit confusin	g "the M-bit FEC parity bits	"		This comment wa	s WITHDRAWN by the	commenter.		
SuggestedReme Change to "t	,	rity bits" (M in italics)			Comment type ch				
Response ACCEPT IN	PRINCIPLE.	Response Status C							
	EC parity" is b	ottor							

C/ 142 SC 142.2.4.3 Page 46 of 103 9/17/2019 11:11:43 AM

SORT ORDER: Clause, Subclause, page, line

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 142.2.4.3	P116	L <b>25</b>	# 382	C/ 142	SC 142.2.4.3	P118	L1	# 481
Dawe, Piers	Mellanox			Slavick, Jef	f	Broadco	om	
Comment Type <b>TR</b> I don't know what you m	Comment Status <b>A</b> ean by "Omega networks".			Comment T Editor's		Comment Status A nould have been remov		machine-readable-files ot with URL
SuggestedRemedy Define what you are talk	ing about. If it doesn't matte	r, don't mention	them.	SuggestedF Replace	Remedy with proper UF	RL		
Response ACCEPT IN PRINCIPLE	Response Status U			Response ACCEP	T IN PRINCIPL	Response Status C	:	
Add an informative refer	ence to			See cor	nment #442			
	ember 1975). "Access and A		a in an Array	C/ 142	SC 142.2.4.3	P118	L1	# 443
	actions on Computers. C-24 rg/stamp/stamp.jsp?tp=&arn		h	Powell, Will	iam	Nokia		
mps.//ieeexplore.ieee.or	19/3tamp/3tamp.jsp:tp=&am		)	Comment T	vpe T	Comment Status	L .	machine-readable-files
at the first instance of O	mega network used as a terr	n			this note:			
C/ 142 SC 142.2.4.3	P116	L <b>29</b>	# 144					ig WG ballot, content of ee.org/downloads/802.3/ in
Remein, Duane	Futurewei Tec	hnologies, Inc.		a machi	ne readable			, o o 210, 11
Comment Type E	Comment Status A	0 /	bucket	format"				
We seem to have a mix	of "De-interleaver", "de-inter	leaver", "Interlea	aver", and "interleaver".	SuggestedF	Remedy			
SuggestedRemedy				with: "Individu	ial seed tables	can be found at:		
Be consistent. Change a	all to initial Caps					/3/ca/private/xxx"		
Response	Response Status C			•		PLACED AT LINK AB	-	
, ACCEPT.				Response		p://standards.ieee.org/ Response Status	-	
	D.4	1.10			T IN PRINCIPL		,	
C/ 142 SC 142.2.4.3	P117	L <b>48</b>	# 383	ACCEI		L.		
Dawe, Piers	Mellanox			See cor	nment #442			
Comment Type <b>TR</b> I don't know what you m Notation	Comment Status A ean this partial square brack	et; it is not expl	ained here or in 1.2					
SuggestedRemedy								
	instead: rounddown() or what	atever is meant.						
Response	Response Status C							
, ACCEPT IN PRINCIPLE	•							
Add footnote under the f	ormula, as follows: (copied f	rom 77.2.2.4)						
NOTE—The notation [] r x rounded down to the n	epresents a floor function, w earest integer.	hich returns the	value of its argument					
TYPE: TR/technical required	ER/editorial required GR/g			0	U/unsatisfied 2		C/ 142 SC 142.2.4.3	Page 47 of 103 9/17/2019 11:11:4

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142	SC 14	42.2.4.3	P118	L1	# 277	C/ 142	SC	142.2.4.3	P <b>118</b>	L1	# 103	
Marris, Art	thur		Cadence Desi	gn Systems		Anslow, P	ete		Ciena			
Comment	Туре	TR	Comment Status A		machine-readable-files	Comment	Туре	Е	Comment Status A		machine-readable-file	
"Editor individ a mac Suggestec Addres "Editor individ	Address the following: "Editor's Note (to be removed prior to publication): Before entering WG ballot, content of individual seed tables will be published under http://standards.ieee.org/downloads/802.3/ ir a machine readable format" <i>rgestedRemedy</i> Address the following: "Editor's Note (to be removed prior to publication): Before entering WG ballot, content of individual seed tables will be published under http://standards.ieee.org/downloads/802.3/ ir a machine readable format"					The editor's note says that "Before entering WG ballot, content of individual seed table be published under http://standards.ieee.org/downloads/802.3/ in a machine readable format" However, the draft is in WG ballot and the location http://standards.ieee.org/downloads/802.3/ is where files for published standards resid SuggestedRemedy Publish the files on the P802.3ca web page and include the location with a note and Editor's note equivalent to those on Page 114 lines 36 to 41 Response Response Status C						
Response	•		Response Status <b>C</b>			•		PRINCIPLE				
	PT IN PF	-						nt #442				
						C/ 142	SC	142.2.4.3	P <b>118</b>	L1	# 145	
C/ 142	SC 14	42.2.4.3	P <b>118</b>	L1	# 111	Remein, D	Duane		Futurewei	Fechnologies, In	с.	
Lusted, Ke	ent		Intel			Comment	Туре	TR	Comment Status A		machine-readable-files	
	ditors not		Comment Status A nat the machine readable fo					tion per the nts on fire!	Editorial note has not bee	n published at th	he advertised URL.	
	//standarc 30 May 20		g/downloads.html. However	, the files for 8	02.3ca are not posted	Suggested	Reme	dy				
Suggested	dRemedy		emove the editors note.				ng the		he advertised URL or Po propriately or change "Be			
Response	•		Response Status <b>C</b>			Response			Response Status <b>C</b>			
•	PT IN PF	RINCIPLE	,			ACCE	PT IN	PRINCIPLE	-			
	omment #					See co						

C/ 142 SC 142.2.4.3 Page 48 of 103 9/17/2019 11:11:43 AM

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

	•					-			
C/ <b>142</b> S	SC 142.2.4.3	P118	L1	# 384	C/ 142	SC 142.2.5	P120	L <b>52</b>	# 146
awe, Piers		Mellanox			Remein, D	Duane	Futurewe	Technologies, Inc.	
omment Typ	e TR	Comment Status A		machine-readable-files	Comment	Туре Т	Comment Status A		
under http		ing WG ballot, content of inc eee.org/downloads/802.3/ in			(bit 25 257 be	7 is equal to 1) eing one implie	7 conveying the origin of th or the PCS Framer Process s that the 257-bit block has	s (bit 257 is equal to	0)0). The value of b
uggestedRer					121/51		pg/ln) f bit 257 being one implies :	hat the 257-bit block	has been transcode
Sort it out.						crambled."	indianting the QET bit block	containated in the D(	C Innut Dragges"
Response ACCEPT I	IN PRINCIPLI	Response Status <b>C</b> E.			124/46	6 "A single bit	e indicating the 257-bit bloc indicating the accompanyin k which is then stored in th	g 256B/257B block h	
See comm	nent #442				We sh	ould be consis	tent in what this bit indicate	S.	
C/142 S	SC 142.2.4.3	P <b>118</b>	L <b>35</b>	# 453	Suggestea	Remedy			
Nicholl, Shawr	n	Xilinx				)/52 (pg/ln) ch			
comment Type	e E	Comment Status A					nd buffers in the PCS are st one line-coding unit (a 257-		
consistent SuggestedRer	with other tal	sary in Tables 142-5, 142-62 bles in the standard (eg. Tab om values in the tables 142-	le 52-20, Table		Proces block f "Vario	ss (bit 257 is e has been trans us variables ar	her the PCS Input Process qual to 0)0). The value of bi coded and scrambled." to: id buffers in the PCS are st	t 257 being one impl ructured as 258-bit w	ies that the 257-bit <i>i</i> ide blocks. Bits 0
	ne nypriens n		5, 142-0.				258-bit block hold one line block has been transcoded		
Response ACCEPT I	IN PRINCIPLI	Response Status <b>C</b> E.			that th bit 257	e block has no 7 also implies t	t been transcoded and scra he origin of the block as be PCS Framer Process (bit 25	mbled (bit 257 is equination either the PCS In	ual to 1). The value
See comm	nent #488								
						/51 change: alue of bit 257	being one implies that the	257-bit block has be	en transcoded and
					scram	bled." to:			
					"The v scram		being one indicates that th	e 257-bit block has b	een transcoded and
					"a bina	8/22 change: ary one indicati ary one indicati	ng the 257-bit block origina ng the 257-bit block has or	ted in the PCS Input has not been transc	Process" to: oded and scrambled
					"A sing "A sing	l/46 change: gle bit indicatin gle bit indicatin bled"	g the accompanying 256B/ g the accompanying 256B/	257B block has beer 257B block has beer	scrambled" to: transcoded and
					Response		Response Status C		
					ACCE	PT IN PRINCI	PLE.		
					At 120	)/52 (pg/ln) cha	ange:		
						(- 3,) 611			

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#### IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

"Various variables and buffers in the PCS are structured as 258-bit wide blocks with bits 0 through 256 holding one line-coding unit (a 257-bit block) and bit 257 conveying the origin of the block to be either the PCS Input Process (bit 257 is equal to 1) or the PCS Framer Process (bit 257 is equal to 0)0). The value of bit 257 being one implies that the 257-bit block has been transcoded and scrambled." to:

"Various variables and buffers in the PCS are structured as 258-bit wide blocks. Bits 0 through 256 of each 258-bit block hold one line-coding unit (a 257-bit block) and bit 257 indicates the 257-bit block has been scrambled and transcoded (bit 257 is equal to 1) or that the block has not been scrambled and transcoded (bit 257 is equal to 0). The value of bit 257 also implies the origin of the block as being either the PCS Input Process (bit 257 is equal to 1) or the PCS Framer Process (bit 257 is equal to 0)."

#### At 121/51 change:

"The value of bit 257 being one implies that the 257-bit block has been transcoded and scrambled." to:

"The value of bit 257 equal to 1 indicates that the 257-bit block has been scrambled and transcoded."

#### At 123/22 change:

"a binary one indicating the 257-bit block originated in the PCS Input Process" to: "a binary 1 indicating the 257-bit block has been scrambled and transcoded."

#### At 124/46 change:

See comment #488

"A single bit indicating the accompanying 256B/257B block has been scrambled ..." to: "A single bit indicating the accompanying 256B/257B block has been scrambled and transcoded ..."

C/ 142	SC 142.2.5.1	P <b>121</b>	L14	# 454
Nicholl, Sh	nawn	Xilinx		
<i>Comment</i> Value	51	Comment Status R . Seems like an unconver	itional use of hyph	ien.
Suggested Replac	IRemedy ce "0x3-CA" with "	0x3CA"		
Response REJE		Response Status C		

 C/
 142
 SC
 142.2.5.1
 P121
 L 30
 #
 488

 Law, David
 Hewlett Packard Enterprise

 Comment Type
 T
 Comment Status
 A
 subscripts

The meaning of '0x0-(0A)subscript32' is unclear. According to IEEE Std 802.3-2018 subclause 1.2.5 'Hexadecimal notation' 'Numerical values designated by the 0x prefix indicate a hexadecimal interpretation ...' and 'Numerical values designated with a 16 subscript indicate a hexadecimal interpretation of the corresponding number.'. This therefore seems to imply that the 32 subscript indicates a base 32 number, which I doubt is correct. Instead I suspect that this is meant to indicate 0x0A repeated 32 times, but I don't see where that convention is defined.

#### SuggestedRemedy

Specify the meaning of '0x0-(0A)subscript32'.

Response Response Status C

ACCEPT IN PRINCIPLE.

Renumber the existing section 142.1.1.2 into 142.1.1.3 and insert the following new section as shown in

http://www.ieee802.org/3/ca/public/meeting\_archive/2019/07/kramer\_3ca\_5\_0719.pdf

C/ 142	SC	142.2.5.1	P1:	21	L <b>33</b>	# 455
Nicholl, Sh	nawn		Xilinx			
Comment	Туре	Е	Comment Status	Α		subscript
			the value of IBI25 to define/explain the		_	HLDR. Similar to
Suggested	Reme	dy				
above	te a co senter	omment (sim			,	The subscript in the
Response			Response Status	С		
ACCE	PT IN	PRINCIPLE				
See co	ommer	nt #488				

C/ 142 SC 142.2.5.1

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 142.2.5.2	P <b>122</b>	L <b>26</b>	# 330	C/ 142	SC 142.2.5.	3 P124	L11	# 148	
Laubach, Mark	Broadcom			Remein, Dua	ane	Futurewei Teo	chnologies, Inc.		
Comment Type E	Comment Status A		bucke	Comment Ty	rpe E	Comment Status A		bı	ucket
5	ing for "142.1.1.5". Same for	line 41.				it block v" in italics? It doesn't , 22, & 34 ("a[4]" in this case).	appear to be.		
SuggestedRemedy Make them into proper	cross references.			SuggestedR	-	:			
Response	Response Status C				he "v" is italic				
ACCEPT.				Response ACCEP1	г.	Response Status C			
C/ 142 SC 142.2.5.2	P123	L <b>36</b>	# 331	C/ 142	SC 142.2.5.	4.1 <i>P</i> 126	L <b>36</b>	# 104	
Laubach, Mark Comment Type E	Broadcom Comment Status A		buck	Anslow, Pete	e	Ciena			
Missing period after "Tx			DUCK	Comment Ty	rpe E	Comment Status A		bı	ucket
SuggestedRemedy					DCESS_DATA " as per the fi	A state contains 4 instances of rst two rows	f "<=" that should I	be the "Assignmer	nt
Add the period at the er	nd of the sentence.			SuggestedR	emedy				
Response ACCEPT.	Response Status C				ROCESS_DA	TA state change 4 instances c	of "<=" to the "Assi	gnment operator"	as
C/ 142 SC 142.2.5.3	P <b>123</b>	L <b>3</b>	# 147	Response ACCEP1	Г.	Response Status C			
Remein, Duane	Futurewei Tec	hnologies, Inc.						"	
Comment Type T	Comment Status A			C/ 142	SC 142.2.5.		L <b>5</b>	# 332	
It would be a kindness t zero".	to the reader to inform them w	vhy "The MSB o	of each cell is set to	Laubach, Ma		Broadcom			
SuggestedRemedy				Comment Ty	,	Comment Status A		DL	ucket
	entence " indicating the 257-b	it block has or I	nas not been	SuggestedR		bieak looks awkwald.			
transcoded and scramb	led."			00	2	_PLACEHOLDER unbreakable	2		
Response	Response Status C			Response		—			
ACCEPT IN PRINCIPL	Ε.			ACCEP	г.	Response Status C			
	entence " indicating the 257-b								

C/ 142 SC 142.2.5.4.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 142.2.5.4.3	3 <i>P</i> 125	L17	# 149	C/ 142 SC	142.3	P <b>125</b>	L <b>38</b>	# 150
Remein, Duane	Futurewei Tec	hnologies, Inc.		Remein, Duane		Futurewei Te	echnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type	TR	Comment Status A		
Missing "the", "a", or "ar	า"			No such bea	ist in Figur	e 142-2 "PCS BER Monitor	Process (see 142	2.3.5.6)".
SuggestedRemedy				SuggestedReme	dy			
Change				Change				
"not transmitting, laser is "not transmitting, the las				"— PCS BEI "— FEC De		Process (see 142.3.5.6)" to		
Response	Response Status C			Response		Response Status C		
ACCEPT.	Response Status			ACCEPT IN	PRINCIPI	1		
				AUDELLIN				
C/ 142 SC 142.3	P <b>125</b>	L <b>37</b>	# 333	The Figure 1		dated per µ/3/ca/public/meeting_archiv	0/2010/07/kromo	r 200 2 0710 pdf /c
Laubach, Mark	Broadcom			comment #2		//o/ca/public/meeting_archiv	e/2019/07/kiame	1_3Ca_3_07 19.put (S
Comment Type E	Comment Status A		bucket	C/ 142 SC	142.3.1	P125	L <b>43</b>	# 450
The first of the hypen-bu	ullet lines ends in a period, th	e other two do n	ot (lines 38 and 39).		142.3.1	-		# 152
SuggestedRemedy				Remein, Duane	_		echnologies, Inc.	
Editor to choose how to	have consistent (or appropri-	ate) line ending f	or all three lines.	Comment Type	T	Comment Status D		
Response	Response Status C					really interleave?		
Response ACCEPT IN PRINCIPLE				SuggestedReme	edy	really interleave?		
ACCEPT IN PRINCIPLE	Ē. <sup>'</sup>			SuggestedReme At line 43 Ct	edy nange	·		
ACCEPT IN PRINCIPLE Remove "." at the end o	E. f the first line.			SuggestedReme At line 43 Ch	edy nange de-interlea	ver data path." to		
ACCEPT IN PRINCIPLE Remove "." at the end o	E. f the first line. P <b>125</b>	L38	# 151	SuggestedReme At line 43 Ch "interleaver/o "de-interleav	edy hange de-interlea rer data pa	ver data path." to th."		
ACCEPT IN PRINCIPLE Remove "." at the end o C/ 142 SC 142.3 Remein, Duane	E. If the first line. P <b>125</b> Futurewei Tec	L <b>38</b> hnologies, Inc.	# [151	SuggestedReme At line 43 Ch "interleaver/o "de-interleav	edy hange de-interleat rer data pa of section	ver data path." to th." 142.3.1.1 from:		
ACCEPT IN PRINCIPLE Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR	E. If the first line. P <b>125</b> Futurewei Tec <i>Comment Status</i> <b>A</b>	hnologies, Inc.	# [ <u>151</u> ]	SuggestedReme At line 43 Ch "interleaver/o "de-interleav Change title "Receive Into "Receive De	edy hange de-interlear er data pa of section erleaving" -interleavir	ver data path." to th." 142.3.1.1 from: to		
ACCEPT IN PRINCIPLE Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure	E. If the first line. P <b>125</b> Futurewei Tec	hnologies, Inc.	# [ <u>151</u>	SuggestedReme At line 43 Cf "interleaver/o "de-interleav Change title "Receive Into "Receive De Proposed Respo	edy hange de-interlear er data pa of section erleaving" -interleavir	ver data path." to th." 142.3.1.1 from: to		
ACCEPT IN PRINCIPLE Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure	E. If the first line. P <b>125</b> Futurewei Tec <i>Comment Status</i> <b>A</b>	hnologies, Inc.	# [ <u>151</u>	SuggestedReme At line 43 Ch "interleaver/o "de-interleav Change title "Receive Into "Receive De	edy hange de-interlear er data pa of section erleaving" -interleavir	ver data path." to th." 142.3.1.1 from: to ng"		
Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure SuggestedRemedy Change Figure 142-2 bla "PCS Synchronization 8	E. If the first line. P125 Futurewei Tec Comment Status A 142-2 "PCS Synchronizer P ock title from Receive Process" to	hnologies, Inc.	# [ <u>151</u> ]	SuggestedReme At line 43 Cf "interleaver/o "de-interleav Change title "Receive Into "Receive De Proposed Respon REJECT.	edy hange de-interleat er data pa of section erleaving" -interleavir onse	ver data path." to th." 142.3.1.1 from: to ng"	ter.	
ACCEPT IN PRINCIPLE Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure SuggestedRemedy Change Figure 142-2 blo	E. If the first line. P125 Futurewei Tec Comment Status A 142-2 "PCS Synchronizer P ock title from Receive Process" to	hnologies, Inc.	# [ <u>151</u>	SuggestedReme At line 43 Cf "interleaver/d "de-interleav Change title "Receive Intu "Receive De Proposed Respon REJECT. This comme	edy hange de-interleat er data par of section erleaving" -interleavir onse nt was WI <sup>*</sup>	ver data path." to th." 142.3.1.1 from: to ng" <i>Response Status</i> <b>Z</b>		
ACCEPT IN PRINCIPLE Remove "." at the end of Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure SuggestedRemedy Change Figure 142-2 bla "PCS Synchronization & "PCS Synchronizer Proc	E. If the first line. P125 Futurewei Tec Comment Status A 142-2 "PCS Synchronizer P ock title from Receive Process" to	hnologies, Inc. rocess"		SuggestedReme At line 43 Cf "interleaver/d "de-interleav Change title "Receive Intu "Receive De Proposed Respon REJECT. This comme	edy hange de-interleat er data par of section erleaving" -interleavir onse nt was WI <sup>*</sup>	ver data path." to th." 142.3.1.1 from: to ng" <i>Response Status</i> <b>Z</b> THDRAWN by the comment		
ACCEPT IN PRINCIPLE Remove "." at the end o Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure SuggestedRemedy Change Figure 142-2 bla "PCS Synchronization & "PCS Synchronizer Proo This is deemed easier th	E. f the first line. P125 Futurewei Tec Comment Status A 142-2 "PCS Synchronizer P ock title from Receive Process" to cess"	hnologies, Inc. rocess"		SuggestedReme At line 43 Cf "interleaver/d "de-interleav Change title "Receive Intu "Receive De Proposed Respon REJECT. This comme	edy hange de-interleat er data par of section erleaving" -interleavir onse nt was WI <sup>*</sup>	ver data path." to th." 142.3.1.1 from: to ng" <i>Response Status</i> <b>Z</b> THDRAWN by the comment		
ACCEPT IN PRINCIPLE Remove "." at the end of Cl 142 SC 142.3 Remein, Duane Comment Type TR No such beast in Figure SuggestedRemedy Change Figure 142-2 bla "PCS Synchronization & "PCS Synchronizer Proc	E. If the first line. P125 Futurewei Tec Comment Status A 142-2 "PCS Synchronizer P ock title from & Receive Process" to cess" han changing the text to mate Response Status C	hnologies, Inc. rocess"		SuggestedReme At line 43 Cf "interleaver/d "de-interleav Change title "Receive Intu "Receive De Proposed Respon REJECT. This comme	edy hange de-interleat er data par of section erleaving" -interleavir onse nt was WI <sup>*</sup>	ver data path." to th." 142.3.1.1 from: to ng" <i>Response Status</i> <b>Z</b> THDRAWN by the comment		

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

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7 142	SC 142.3.1	P <b>126</b>	L <b>20</b>	# 484	C/ 142	SC 142.3.1.1		P <b>126</b>	L <b>2</b>	# 486	
Slavick, Jeff	f	Broadcom	1		Law, David	d		Hewlett Pack	ard Enterprise		
Comment Ty	vpe TR	Comment Status R			Comment	Туре Т	Comment S	Status A			
		xit from NEXT_VECTOR I			The va	ariable BEGIN is	not defined.				
		comes RATE_ADJ_EQ b and RESET_XBUF would			Suggested	Remedy					
SuggestedR	Remedy				Add th	e following varia	ble definition to	subclause 14	42.2.5.2.		
Resolve	the conflict				BEGIN	٨					
Response		Response Status <b>C</b>				Boolean	h   a ; a , . a a al h a		anation of the firm	ation all black atot	-
REJECT	Г.					m. It is set to TR			eration of the fund d every reset.	Ctional Diock State	e
This is a	a fair observati	on for the state diagram 1	42-10 behavior, how	vever such input to the	Response		Response S	tatus C			
state dia	agram is preclu	ided by the higher layer (s smitted when there is no	ee MCRS, Figure 1	43-12). The inter-burst	ACCE	PT IN PRINCIPI	-E.				
the IBI_I 224 data	EQ will be suc	ceeded by data EQ. The f er one FEC codeword pay	irst RATE_ADJ_EC	will only appear after		e following varia or BEGIN and re			42.2.5.2. In every	"Variable" section	n, add
7 142		P126	L1	# 456	BEGIN	N Boolean					
Nicholl, Sha		Xilinx	-1	<i>"</i> +50			ble is used whe	n initiating op	eration of the fun	ctional block state	е
Comment Ty		Comment Status A		redraw		m. It is set to tru	e following initia	alization and e	every reset, and it	is reset to false of	on
,		grams appears different fro	m most other state		read.						
		s "Figure 142-10 PCS Inp			C/ 142	SC 142.3.1.1		P <b>126</b>	L <b>36</b>	# 487	
PCS Fra	amer Process	State Diagram" and other	S.		Law, David	d		Hewlett Pack	ard Enterprise		
SuggestedR	Remedy				Comment	Type E	Comment S	Status A			bucke
Update	the state diagr	ams to look more like othe	er state diagrams in	the standard	The As	ssignment opera	tor character de	efined in Tabl	e 21-1 should be	used rather than	the
Response		Response Status C			two se	parate symbols	'<' and '='.				
ACCEP	T IN PRINCIP	_E.			Suggested	Remedy					
See con	nment #98					ce the four instan n Figure 142-10.		the Assignm	ent operator in th	e PROCESS_DA	ιΤΑ
					Response		Response S	tatus C			
					ACCE	PT.					

C/ 142 SC 142.3.1.1

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C/ 142	SC 142.3.1.1	P <b>126</b>	L <b>36</b>	# 495	C/ 142	SC ·	142.3.3	P <b>128</b>	L <b>34</b>	# 153
Brandt, David	ł	Rockwell Aut	omation		Remein, D	Duane		Futurewei Te	chnologies, Inc.	
Comment Typ	be E	Comment Status A		post-deadline; bucket	Comment	Туре	TR	Comment Status A		
Four inco	rrect symbols a	are used.						sing at best and possibly mis		
SuggestedRe	medy					,		ambler is initialized with the through s[57] as shown in F		
xBuffer[0] xBuffer[1] xBuffer[2] xBuffer[3]	assignment op   <= Scramble(   <= Scramble(   <= Scramble(   <= Scramble(	xBuffer[1]) xBuffer[2]) xBuffer[3])	<=" in the follow	ing 3 assignments:	First o after ti what is initializ	off there he desc s the rea zed with correct.	are no s[> rambler ader to do whatever	() bits in the Fig 142-14. The The "i.e., i.e., bits s[0] throug ) to be the individual bits of S happens to be in the registe s a clearly defined constant a	S[x] _Bytes_ sh h s[57]" if as 60S7 implies t r after receiving	nown in Fig 142-14 ar sumed (a bad idea br that the descrambler g SBD. This is unlike
Response ACCEPT.		Response Status C			Suggested		'v			
ACCEPT	•				00		•	rough s[57] as shown in Figu	ıre 142–14 "	
C/ 142	SC 142.3.2	P <b>126</b>	L <b>49</b>	# 457	Response		1.1	Response Status <b>C</b>		
Nicholl, Shaw	'n	Xilinx					RINCIPL	-		
Comment Typ	pe T	Comment Status A			_		-			
Consider	to clarify that th	he four output blocks from t	he transcoder a	are still scrambled.	See co	omment	#268			
uggestedRe	medy				C/ 142	SC ·	142.3.5.1	P131	L14	# 297
Replace "	four consecutiv	ve 66-bit" with "four consec	utive scrambled	d 66-bit"	Wienckow	vski, Nat	alie	General Moto	rs	
lesponse		Response Status C			Comment	Туре	Е	Comment Status D		
ACCEPT								ace in number that have 4 or EEE-SA Style Manual, not a		he left of the decimal
This is a t	technical comn	nent. Changed type to "T"			Suggested	dRemed	<i>y</i>			
					Chang To: 16	ge: 16,9 3 962	62			
					Proposed	Respon	se	Response Status Z		
							REJECT.			

This comment was WITHDRAWN by the commenter.

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# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 142.3.5.	2 P <b>132</b>	L14	# 154	C/ 142	SC 142.3	3.5.2	P <b>133</b>	L <b>29</b>	# 157
Remein, Duane	Futurewei Tech	nologies, Inc.		Remein, D	Juane		Futurewei Teo	chnologies, Inc.	
Comment Type T	Comment Status A			Comment	Type <b>TR</b>		Comment Status A		
Do we test FEC CWs	or decode them?						ot true (see 142.1.3.1) "Or		, this value does not
SuggestedRemedy				0		ted as c	constant by the state diagr	am."	
Change (2x in para)				Suggestea	-				
	eword is available for testing" to			Strike.					
	eword is available for decoding"			Response		I	Response Status <b>C</b>		
Response ACCEPT IN PRINCIP	Response Status C			ACCE	PT.				
ACCEPT IN PRINCIP	-E.			C/ 142	SC 142.3	3.5.2	P133	L <b>35</b>	# 158
Comment type change	⊧d to "T"			Remein, D	Juane		Futurewei Teo	chnologies, Inc.	
Change (2x in para)				Comment			Comment Status A	<u>g</u> ,	bucke
"a new QC-LDPC cod	eword is available for testing" to eword is available for testing by		r Process"	PMA_	SIGNAL.	_OK) cr	osses the line and should	n't	
C/ 142 SC 142.3.5.	2 P <b>132</b>	L <b>38</b>	# 155	Suggestea	lRemedy				
Remein, Duane	Futurewei Tech	nologies. Inc.		per co	mment				
Comment Type T	Comment Status A	0		Response		I	Response Status <b>C</b>		
Well close. MatchCou	int doesn't track all matches onl	y those before th	ne ONU is in sync	ACCE	PT.				
SuggestedRemedy				C/ 142	SC 142.3	3.5.2	P134	L <b>25</b>	# 386
Change:				Dawe, Pie			Mellanox		
"This counter tracks th delimiters (FEC_CW_	e number of consecutive succe	ssful detections	of FEC codeword	Comment			Comment Status A		PM
	e number of consecutive succe	ssful detections	of FEC codeword				dication primitive?		1 100
	DELIM) while the ONU is not sy	nchronized to th	e proper 257-bit block	Suggested	_				
boundary."				00		DMA s	ervice interface definition.	Add it	
Response ACCEPT.	Response Status C			Response				Add It.	
ACCEPT.				,	PT IN PRIN		Response Status C		
C/ 142 SC 142.3.5.2	2 P133	L <b>2</b>	# 156	ACCL		OIF LL.			
Remein, Duane	Futurewei Tech	nologies, Inc.		Insert				1004010711	
Comment Type E	Comment Status A		bucket			0	ca/public/meeting_archive/ and renumber existing sub		
сопппенстуре с				neede					
Persistent- FecFail crosses the lir	e and shouldn't.								
Persistent- FecFail crosses the lir	e and shouldn't.								
Persistent- FecFail crosses the lir	e and shouldn't.								
Persistent- FecFail crosses the lir SuggestedRemedy	e and shouldn't. Response 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 U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 142 SC 142.3.5.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 1	42.3.5.3	P133	L <b>51</b>	# 159	C/ 142 SC 142.3	1.5.3
Remein, Duane		Futurewei Tec	hnologies, Inc.		Remein, Duane	
Comment Type This is the only of decode).	_	Comment Status <b>A</b> "de-coding". There are ~	27 instances of	<i>bucket</i> decode (or some form	Comment Type E PMA_UNITDATA.in rx_code_group<25	
SuggestedRemedy Remove the hy					SuggestedRemedy per comment	
Response ACCEPT.	F	Response Status C			Response ACCEPT.	Re
C/ 142 SC 1	42.3.5.3	P134	L <b>5</b>	# 358	C/ 142 SC 142.3	3.5.4
Hajduczenia, Mare	k	Charter Comm	nunications		Laubach, Mark	
Comment Type	TR	Comment Status A			Comment Type E	С
		a tad cryptic. The FecDeco			Missing period, end	d of last s
shortened. The Looking at Figu generates the o	e codeword I ure 142–16, output of Ou	EC Decoder. The FEC codength is intrinsic to the pathis function is just called, the transfer to the since that is what a not described anywhere	rameter cw. but then I guess is used as input	s it is assumed that it	SuggestedRemedy Add the period. Response	Re
SuggestedRemedy	/				ACCEPT.	
		read between state diagra nto OutputFifo explicitly	ms, it is recomm	nended to make	C/ <b>142</b> SC <b>142.3</b> Hajduczenia, Marek	1.5.4
RX_FULL_CW	state in Fig	d statement "OutputFifo.Ap ure 142–16 and Figure 14 142–15 + Add the followi	2–15, as well as	in state	Comment Type TR PCS_BLK_SZ is no	C ot defined
definition of Fe	cDecode fui	nction. "On completion of	the FEC decodir	g operation, the	SuggestedRemedy	
		s a series of 257-bit block			Seems the followin PCS_BLK_SZ	
"On completion 257-bit blocks	n of the FEC appended to	add only statement in defin decoding operation, the F the OutputFifo." - this op ate diagrams via descripti	FecDecode funct tion still requires	ion returns a series of a reader to make a	Type: unsigned inte Description: The P Value: 257	
				1	Response	Re
		Response Status C			ACCEPT IN PRINC	CIPLE.
ACCEPT IN P	KINCIPLE.				PCS_BLK_SZ	
Change name	of "FecDeco	ode" function to "PassToFo	ecDecoder" in te	xt and SDs.	Type: unsigned inte Description: The P Value: 257 Unit: bits	

C/ 142	SC	142.3.5.3	P	134	L <b>25</b>	# 160	
Remein, D	uane		Futu	rewei Te	echnologies, Inc.		
_	UNITD	<b>E</b> ATA.indica Jp<256:0>	Comment Status tion( ) crosses the line a		ldn't		bucke
Suggested per coi							
Response ACCEI	PT.		Response Status	C			
C/ 142	SC	142.3.5.4	P	134	L <b>36</b>	# 334	
Laubach, M	Mark		Broa	dcom			
Comment <sup>·</sup>	Туре	Е	Comment Status	6 <b>A</b>			bucke
Missin	g perio	d, end of la	ast sentence of par	agrpah.			
Suggested Add th							
Response ACCEI	PT.		Response Status	C			
C/ 142	SC	142.3.5.4	P	135	L1 <b>3</b>	# 357	
Hajduczen	ia, Ma	rek	Cha	rter Com	munications		
Comment <sup>·</sup>	Туре	TR	Comment Status	5 <b>A</b>			
PCS_E	BLK_S	Z is not def	ined right now and	it does	not seem like we h	nave any .	
Suggested	Remed	dy					
PCS_E Type: (	BLK_S unsign ption: 1	Z ed integer	nple definition in XX BLK_SZ constant h			ata block.	
Response			Response Status	С			
ACCEI	PT IN I	PRINCIPLE					
	unsign ption: 7 257	ed integer	BLK_SZ constant h	olds the	size of the PCS d	ata block.	

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

C/ 142 SC 142.3.5.4 Page 56 of 103 9/17/2019 11:11:43 AM

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C/ 142	SC 142.3.5.4	P135	L15	# 485	C/ 142 SC 14	42.3.5.7	P137	L <b>42</b>	# 368
Slavick, Jeff	:	Broadcom			Hajduczenia, Marel	<b>(</b>	Charter Comr	nunications	
Comment Ty	/pe TR	Comment Status R			Comment Type	TR Co	omment Status A		
		t from GET_NEXT_BLOCK h und are both true which path		xit criteria. If	FEC_PAYLOAI	D_SIZE const	t variable is initialized ir ant, defined in 142.2.5.	1 as 56 units of 2	257-bit blocks.
SuggestedRe	lemedy						remented every 72 bit-t faster than expected. It		
Change	the path to CHE	ECK_CW_LEN to be "!Signal	Fail AND Matchf	ound"			on of the FEC payload of		
Response		Response Status U			SuggestedRemedy				
REJECT		nplicate this transition in the S	SD. since regard	less of which of the			ion from OUTPUT_72B 57-bit blocks recovered		
		akes, it will end up in the sam			Response	Res	sponse Status <b>C</b>		
C/ 142	SC 142.3.5.7	P <b>136</b>	L <b>45</b>	# 163	ACCEPT IN PR				
Remein, Dua	ane	Futurewei Tec	hnologies, Inc.		Changes per co	mmont Alco	, we need to move FEC		ZE definition to
Comment Ty Missing '		Comment Status A		bucket			back to 142.2.5.1, as it		
SuggestedRe Change		ess" to "of the Output Proces	ss"		C/ 142 SC 14 Dawe, Piers	12.4	P <b>137</b> Mellanox	L <b>53</b>	# 385
Response	·	Response Status C			,	TR Co	omment Status A		PI
ACCEPT	Т.				Missing text				
	SC 142.3.5.7	P137	L <b>4</b>	# 164	SuggestedRemedy				
7 <b>142</b>	30 142.3.3.7	/ 15/							
		Futurewei Tec	hnologies, Inc.		Introduce / sum	marise the PI	MA		
Remein, Dua	ane	-	hnologies, Inc.	bucket	Response	Res	MA sponse Status <b>U</b>		
Remein, Dua Comment Ty Figure ne	ane /pe E eeds clean-up;	Futurewei Tec	-	bucket		Res			
Remein, Dua Comment Ty	ane /pe E eeds clean-up;	Futurewei Tec Comment Status A	-	bucket	Response	Res RINCIPLE.			
Remein, Dua Comment Ty Figure ne touch blo	ane //pe E leeds clean-up; ocks.	Futurewei Tec Comment Status A	-	bucket	Response ACCEPT IN PR	Res RINCIPLE.			
Remein, Dua Comment Ty Figure ne touch blo	ane //pe E eeds clean-up; ocks. Permedy	Futurewei Tec Comment Status A	-	bucket	Response ACCEPT IN PR	Res RINCIPLE.			
touch blo SuggestedRe	ane //pe E eeds clean-up; ocks. Permedy	Futurewei Tec Comment Status A	-	bucket	Response ACCEPT IN PR	Res RINCIPLE.			

C/ 142 SC 142.4

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142	SC 142.4.1	P137	L <b>3</b>	# 387	C/ 142	SC 142.4.1	P <b>138</b>	L <b>4</b>	# 166
awe, Piers	5	Mellanox			Remein, Du	iane	Futurewei Te	chnologies, Inc.	
omment T	ype TR	Comment Status A			Comment T	уре Т	Comment Status A		
This isn	't an adequate d	efinition of "differential enco	oding".			ntence is poor			
uggestedF	•				"Differer in Claus	ntial encoding se 45 register	is optional to use by setting th I.29.15 (see 45.2.1.23a.2)."	ne control bit in the	e register, as defined
"precod	ling"? Are Xi and	ing: What is it for? When is I Yi bits, 257-bit vectors, or mean by a + in a circle.			SuggestedR Change				
esponse		Response Status U					is optional to use by setting th I.29.15 (see 45.2.1.23a.2)." to		e register, as defined
ACCEP	T IN PRINCIPLE	<u>.</u>			"Use of	differential en	coding is optional. Setting the enables the encoding."	e register control b	bit 1.29.15 (see
		(twice) interchangeably for			Response	,	Response Status <b>C</b>		
encodin	ng, so precoding	ure 142-20). The more com will be removed from subse vith "differential encoding" in	equent draft versi	ons.		T IN PRINCIP			
- Sub	oclause 142.4.2 ure 142-20				Comme	ent type change	ed to "T"		
different 142.4 N "The PN	tial encoding and lx25G-EPON PM MA includes a do	wnstream differential encod	ding option at the	e serial bit rate (output	in Claus to "The us	ntial encoding se 45 register e of differentia	is optional to use by setting th 1.29.15 (see 45.2.1.23a.2)." I encoding is optional. Setting enables the differential enco	the register conti	-
		o succeeding input values r g technique facilitates the u			C/ 142	SC 142.4.2	P138	L <b>9</b>	# 167
(3) Impl	lement changes t	to Figure 142-19 and Figure	142-20 as show	vn in	Remein, Du	lane	Futurewei Te	chnologies, Inc.	
http://ww		3/ca/public/meeting_archive			Comment Ty What is		Comment Status A PMA function"?		
142	SC 142.4.1	P138	L <b>3</b>	# 165	SuggestedR	-			
emein, Du	lane	Futurewei Te	chnologies, Inc.		Change "Differer		shall be implemented in the C	NU PMA RX fund	tion as shown in
omment T	ype <b>T</b>	Comment Status A			Figure 1	142–20." to			
What is	an "OLT TX PM	A"?					shall be implemented in the a	is shown in Figure	e 142–20 in the ONU
	•				receive Response	PIMA.	Response Status C		
	e to "OLT transmi				ACCEP	T IN PRINCIP	LE.		
Change		Response Status C			0				
esponse	T IN PRINCIPLE				Still not	good. What is	"ONU transmit PMA for down	nstream"?	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 142
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 142
 9/17/2019 11:11:43 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 142
 9/17/2019 11:11:43 AM

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C/ 142 SC 142.4.2	P138	L10	# 168	C/ 142 SC 142.4.4.1	P138	L13	# 170
Remein, Duane	Futurewei Teo	hnologies, Inc.		Remein, Duane	Futurewei Teo	chnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type E	Comment Status A		bucke
Change "RX" to "receiv	ve"			Per Clause 1.5 CDR m	nean clock and data recovery	not clock data reco	overy
SuggestedRemedy per comment				SuggestedRemedy per comment			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 142 SC 142.4.2	P138	L11	# 169	C/ 142 SC 142.5.5.4	P135	L <b>2</b>	# 161
Remein, Duane	Futurewei Teo	hnologies, Inc.		Remein, Duane	Futurewei Teo	chnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type ER	Comment Status A		redraw
Clause 45 does not co	ontain "ONU registers"			Several SDs are not se tool).	earchable in pdf files (i.e., are	imported from son	ne foreign drawing
SuggestedRemedy				SuggestedRemedy			
Change	ONU register 1.29.15" to			,	native drawing format if not al	ready so.	
"mapped to Clause 45	register bit 1.29.15 (see 45.2.	1.23a.2)"		Response	Response Status C		
use live link for xRef.				ACCEPT IN PRINCIPI			
Response	Response Status C						
ACCEPT.				See comment #98			
C/ 142 SC 142.4.2	P <b>138</b>	L <b>12</b>	# 335	C/ 142 SC 142.5.5.5	5 P135	L <b>37</b>	# 162
Laubach, Mark	Broadcom			Remein, Duane	Futurewei Teo	chnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type T	Comment Status A		
Missing period, end of	last sentence of paragraph.			This statement is not on shortened FEC codew	uite accurate "In the ONU,		
SuggestedRemedy				SuggestedRemedy			
Add the period.				Change			
Response ACCEPT.	Response Status C			"In the ONU, shortened	d FEC codewords are disallow ath, shortened FEC codeword		
				Response	Response Status C		
				ACCEPT.			

C/ 142 SC 142.5.5.5

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142A	SC 142A.1	P <b>249</b>	L <b>5</b> 1	# 445	C/ 142A SC 142A.	2 <i>P</i> 249	L <b>37</b>	# 110
Powell, Willia		Nokia	201	# <del>11</del> 5	Anslow, Pete	Z 7 Z43 Ciena	201	# 110
Comment Ty		Comment Status A			Comment Type E	Comment Status A		bucket
"Editor's		moved prior to publication): Linded here prior to publication."	k to the CSV	file containing machine	The heading "2A.2" SuggestedRemedy	QC-LDPC FEC Encoder Test Ve	ctors" should be	e "142A.2" not "2A.2"
uggestedRe					In the heading "2A.: (Re-apply the headi	2 QC-LDPC FEC Encoder Test \ ng style AH1,A.1)	/ectors" change	"142A.2" to "2A.2"
http://ww machine	vw.ieee802.org readable form	PC test vectors can be found at g/3/ca/private/machine-readable nat. standards.ieee.org/downloads/8	e/3ca_LDPC_t	est_vectors.zip in	Response ACCEPT. Cl 142A SC 142A.	Response Status C	L51	# 483
Response		Response Status C	02.3/]		Slavick, Jeff	Z F 249 Broadcom	231	# 403
ACCEPT	Γ IN PRINCIPL nment #442.	-			Comment Type E machine is mis-spe	Comment Status A		bucke
/ 142A	SC 142A.2	P249	L37	# 270	SuggestedRemedy			
		-	L31	# 270	Fix it			
Kramer, Glei Comment Ty Caption	vpe E	Broadcom Comment Status <b>A</b> sing "14". Just says "2A.2"		bucket	Response ACCEPT IN PRINC	Response Status C		
SuggestedRe Add miss	emedy				files will be	removed prior to publication): A		
Response ACCEPT	г.	Response Status C				b://standards.ieee.org/downloads ble right now at: http://www.ieee8		
7 142A	SC 142A.2	P <b>249</b>	L <b>37</b>	# 482				
lavick, Jeff		Broadcom						
Comment Ty The sub-		Comment Status <b>A</b> as "2A.2" instead of 142A.2		bucket				
SuggestedRe Fix it	emedy							
Response ACCEPT	г.	Response Status C						

C/ 142A SC 142A.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

/ 143 SC 143.1	I P143	L <b>6</b>	# 259	C/ 143	SC 143.1		P <b>143</b>	L <b>37</b>	# 258
'Ambrosia, John	Futurewei, U.	S. Subsidiary of	Huawei	D'Ambros	ia, John	l	Futurewei, U.	S. Subsidiary of I	Huawei
mment Type TR	Comment Status A			Comment	Туре Е	Comment S	tatus A		
and PHYs. There	onciliation Layer introduced - note is no definition provided in 1.4, ar	nd if you look at t	he MCRS in Fig 143-			istent with other s ne MII is illegible.	similar figures	as noted in othe	er comments, and the
Independent Interfa Sublayer (PLS) set	function that reconciles the signa ace (MII) to the specific Media Ac rvice			Suggested redrav	,	onsistent with diag	grams such as	s 56-1, 56-2, 56-3	3, 56-4.
definitions.				Response	•	Response St	atus C		
ggestedRemedy				ACCE	PT IN PRINCIP	LE.			
Action 1 - add definition to 1.4 Multi-Channel Reconcillation Layer provide a mapping function that reconciles the signals at a specific Media Independent Interface (MII) to a specific Media Access Control (MAC)-Physical Signaling				Currer	nt figure empha	sizes the purpose	e of Clause 14	3, covering MCF	RS function.
Sublayer (PLS) se			J-Friysical Signaling	The te	ext associated w	ith the MII will be	made more l	egible.	
definitions. Action 2 - change t	text in 143.1 -This clause describe	es the Multi-Char	nnel Reconciliation	C/ 143	SC 143.2.4.	2	P145	L <b>23</b>	# 32
	which enables multiple MACs to			Hajduczer	nia, Marek		Charter Comr	nunications	
to	iple Physical Layers.			Comment	Type ER	Comment S	tatus A		can-vs-ma
	bes the Multi-Channel Reconciliat	tion Sublayer (M	CRS) which enables	"can"	used and not in	tended per Style	Guide		
multiple MACs to				Suggested	dRemedv				
interface with multi	•			••	•	tain at most two	partial frames	" to "and may co	ntain at most two
sponse	Response Status C			partial	frames"			2	
ACCEPT IN PRIN	JIPLE.			Response	•	Response St	atus C		
	nition to 1.4 "Multi-Channel Recor g function that reconciles the sigr			ACCE	PT.				
	a specific Media Access Control (			C/ 143	SC 143.2.4.	4	P146	L <b>40</b>	# 336
(PLS) service defin	iitions."			Laubach,	Mark		Broadcom		
Action 2 - change	text in 143.1 -This clause describe	es the Multi-Char	nnel Reconciliation	Comment	Type E	Comment S	tatus A		buck
	which enables multiple MACs to i			"46.2."	1" should be for	est green. Same	e for Page 154	l, line 52 for "46.	1.7.2"
• • •	nos the Multi Channel Reconcilier	tion Sublaver (M	CRS) which enables	Suggested	dRemedy				
to	Des me Multi-Channel Reconcilia			00					
to This clause describ	nterface with multiple xMIIs.			Make	it so.				
to This clause describ				Make Response		Response St	atus <b>C</b>		

C/ 143 SC 143.2.4.4

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C/ 143 SC 143.2.4.	4 P147	L <b>2</b>	# 261	C/ 143 SC 14	3.2.5.2	P149	L <b>25</b>	# 34
D'Ambrosia, John	Futurewei, U.S	<ol><li>Subsidiary of</li></ol>	Huawei	Hajduczenia, Marek	ĸ	Charter Comm	nunications	
Comment Type ER	Comment Status R			Comment Type	ER C	omment Status A		can-vs-may
	143-3. See IEEE-SA Style Gu			"can" used and	not intended	I per Style Guide		
See also Fig 143-8, P	nd line drawings should be sav 152	ed as black/wh	Ite	SuggestedRemedy				
SuggestedRemedy				Change "Other t variability may a		bility can accumulate in the	he sublayers" to	"Other timing
Save diagram in black	k /white							
Response	Response Status U			Response	Re	esponse Status C		
REJECT.				ACCEPT.				
				C/ 143 SC 14	13.3.1	P153	L <b>5</b>	# 171
Color is not needed to	o interpret data and not referen	ced in text in ar	iy way	Remein, Duane		Futurewei Teo	chnologies, Inc.	
C/ 143 SC 143.2.5	P <b>148</b>	L <b>2</b>	# 496	Comment Type	E C	comment Status A		bucket
Brandt, David	Rockwell Auto	mation				s of the PLS service inte	rface (one per N	IAC) and N xMII
Comment Type E	Comment Status A		post-deadline; bucket	instances" shou	lid de in Italio	S.		
Figure 143-5 vertical	axis label has characters overla	apping.		SuggestedRemedy				
SuggestedRemedy				per comment				
Lico smaller font to pr		vina		Response	Re	esponse Status C		
Use smaller form to pr	event characters from overlapp	nig.						
Response	event characters from overlapp Response Status C	Jing.		ACCEPT.				
•		nig.		ACCEPT. C/ 143 SC 14	13.3.1	P153	L14	# 262
Response ACCEPT.	Response Status C		# [33]		13.3.1		L <b>14</b> S. Subsidiary of	
Response ACCEPT. Cl 143 SC 143.2.5	Response Status C	L33	# 33	Cl 143 SC 14 D'Ambrosia, John				
Response ACCEPT. C/ 143 SC 143.2.5 Hajduczenia, Marek	Response Status C P148 Charter Comr	L33		Cl <b>143</b> SC <b>14</b> D'Ambrosia, John Comment Type	<b>ER</b> C	Futurewei, U.S	S. Subsidiary of	
Response ACCEPT. C/ 143 SC 143.2.5 Hajduczenia, Marek Comment Type ER	Response Status C P148 Charter Comr Comment Status R	L33	# 33 can-vs-may	Cl <b>143</b> SC <b>14</b> D'Ambrosia, John Comment Type	<b>ER</b> C	Futurewei, U.S comment Status A	S. Subsidiary of	
Response ACCEPT. Cl 143 SC 143.2.5 Hajduczenia, Marek Comment Type ER "can" used and not in	Response Status C P148 Charter Comr	L33		Cl 143 SC 14 D'Ambrosia, John Comment Type I Vertical text in le SuggestedRemedy	ER C eft / right of c	Futurewei, U.S comment Status A	S. Subsidiary of	
Response ACCEPT. Cl 143 SC 143.2.5 Hajduczenia, Marek Comment Type ER "can" used and not in SuggestedRemedy	Response Status C P148 Charter Comm Comment Status R tended per Style Guide	L <b>33</b> nunications	can-vs-may	Cl 143 SC 14 D'Ambrosia, John Comment Type I Vertical text in le SuggestedRemedy	ER C eft / right of c nt to fascilate	Futurewei, U.S comment Status <b>A</b> diagram of Fig 143-9 is ill	S. Subsidiary of	
Response ACCEPT. Cl 143 SC 143.2.5 Hajduczenia, Marek Comment Type ER "can" used and not in SuggestedRemedy	Response Status C P148 Charter Comm Comment Status R tended per Style Guide an instantaneous transmissior	L <b>33</b> nunications	can-vs-may	Cl 143 SC 14 D'Ambrosia, John Comment Type I Vertical text in le SuggestedRemedy Use different for	ER C eft / right of c nt to fascilate	Futurewei, U.S comment Status <b>A</b> diagram of Fig 143-9 is ill e being able to read text	S. Subsidiary of	
Response ACCEPT. Cl 143 SC 143.2.5 Hajduczenia, Marek Comment Type ER "can" used and not in SuggestedRemedy Change "can achieve	Response Status C P148 Charter Comm Comment Status R tended per Style Guide an instantaneous transmissior	L <b>33</b> nunications	can-vs-may	Cl 143 SC 14 D'Ambrosia, John Comment Type I Vertical text in le SuggestedRemedy Use different for Response	ER C eft / right of c nt to fascilate	Futurewei, U.S comment Status <b>A</b> diagram of Fig 143-9 is ill e being able to read text	S. Subsidiary of	

permitted") is semantically wrong here

C/ 143 SC 143.3.1

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C/ 143 SC 143.3.1	P153	L <b>26</b>	# 497	C/ 143 SC 143.3	.1.1 <i>P</i> 154	L18	# 52
Brandt, David	Rockwell Autor	mation		Hajduczenia, Marek	Charter Con	nmunications	
Comment Type T	Comment Status A		post-deadline	Comment Type T	Comment Status A		
Index is incorrect.				Statement is not co also shows XGMII	prrect: "All transmit 25GMII inter	faces share a com	mon clock." - tabel
SuggestedRemedy				SuggestedRemedy			
Change: "TXC[N]<3:0>",					nit 25GMII interfaces share a co	mmon clock." to "A	I transmit xGMII
Response	Response Status C				common clock." under Table 14		
ACCEPT.				Response	Response Status C		
This is a technical comn	nent, type changed to "T"			ACCEPT IN PRINC	CIPLE.		
C/ 143 SC 143.3.1	P <b>153</b>	L <b>26</b>	# 172	Remove footnote a	) reference points in rows for 10	) Gb/s and 25 Gb/s	in Table 143-1.
Remein, Duane	Futurewei Tecl	hnologies, Inc.		C/ 143 SC 143.3	.1.2.1 <i>P</i> 155	L <b>18</b>	# 173
Comment Type T	Comment Status A			Remein, Duane	Futurewei T	echnologies, Inc.	
We seem to have acquir	red an extra TCX in figure 14	3-9.		Comment Type E	Comment Status A		bucke
SuggestedRemedy					envelope on channel ch for the I		
Change: "TXC[N}<3:0>"	to "TXC[N-1}<3:0>"			, _ 0	<ul> <li>If all channels are idle, the En (see EnvStartHeader() function</li> </ul>	```	,
Response	Response Status C				v_length", "EnvPam", "epam" s		0.0).
ACCEPT IN PRINCIPLE				SuggestedRemedy			
Change: "TXC[N]<3:0>"	to "TXC[N-1]<3:0>"			per comment			
C/ 143 SC 143.3.1.1	P153	L <b>41</b>	# 51	Response	Response Status C		
Hajduczenia, Marek	Charter Comm	unications		ACCEPT.			
Comment Type E	Comment Status A		bucket	C/ 143 SC 143.3	.1.2.2 <i>P</i> 155	L <b>25</b>	# 304
Compound adjective				Kramer, Glen	Broadcom		
SuggestedRemedy				Comment Type T	Comment Status A		
Change "In all single cha	annel RS definitions" to "In al	I single-channel R	S definitions"		ch].indication(cw_left) primitive		
	Response Status C				l everywhere in text, but still ren	hains in the subcla	use title.
Response				SuggestedRemedy			
Response ACCEPT.				atrilia llavi lafill			
Response ACCEPT.				strike "cw_left" Response	Response Status <b>C</b>		

C/ 143 SC 143.3.1.2.2

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 143 SC 143.3.1.2	2.2 P155	L <b>26</b>	# 174	C/ 143	SC 143.3.2	P <b>157</b>	L <b>5</b>	# 105
Remein, Duane	Futurewei Teo	chnologies, Inc.		Anslow, P	ete	Ciena		
Comment Type E	Comment Status A		bucket	Comment	Type E	Comment Status	۱.	bucke
"ch" and "link_id", "en	v_length", "EnvPam", "epam"	should be in italic	S.			ual states that for a numb		should never be used
SuggestedRemedy						e misconstrued as subtrac draft violate this rule.	tion signs."	
per comment				Suggested				
Response	Response Status C			00		ge all instances of "x-y" to	"x to v"	
ACCEPT.								s used to indicate a range
				includi		44 Q T-11- 444 4 T-11-	4447 Table 444	0 T-1-1- 444 44 T-1-1- 444
C/ 143 SC 143.3.1.2		L <b>29</b>	# 35	1 able	144-2, Table 1	44-3, Table 144-4, Table	144-7, Table 144	-8, Table 144-11, Table 144-
Hajduczenia, Marek	Charter Comn	nunications			4.2 page 139,	line36 ("20-30")		
Comment Type ER	Comment Status A		can-vs-may	Response		Response Status	;	
"can" used and not inte	ended per Style Guide			ACCE	PT.			
SuggestedRemedy								
	an decide whether to issue a r		nediately" to "The	C/ 143	SC 143.3.2		-	# 263
	ether to issue a new envelope	immediately"		Kramer, G		Broadco		
Response	Response Status C			Comment	51	Comment Status	-	bit-orde
ACCEPT.						e issues with incorrect en		us constants. Per 802.3 e right. Thus, the control bits
C/ 143 SC 143.3.2	P <b>156</b>	L <b>3</b>	# 175		,			, the first octet in an EQ is a
Remein, Duane	Futurewei Teo	chnologies, Inc.				e rest are data). But the d	raft shows the cor	ntrol bits as 0x80 in multiple
Comment Type E	Comment Status A	0 /	bucket	places	<b>.</b>			
21	names as variables (as in Cl 1 alics.	44.3.6.x) then all	field names in this			of IEI_EQ, IBI_EQ, RATE	_ADJ_EQ, and PI	REAMBLE_EQ all show the
SuggestedRemedy								
per comment				Suggested	,			0740 //
Response	Response Status <b>C</b>			,		es to the draft as shown i		_0719.pdf
, ACCEPT.				Response		Response Status	;	
				ACCE	PT IN PRINCI	PLE.		
				Per pr	oposed chang	es, less changes to Table	143-3 deleted pe	er comment #272
					. 3			

C/ 143 SC 143.3.2 Page 64 of 103 9/17/2019 11:11:44 AM

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C/ 143	SC 143.3.2	P157	L <b>25</b>	# 272
Kramer, C	Glen	Broadcom		

#### Comment Type T Comment Status A

It is not true to state that bits E and K are "used by 1904.1". 1904.1 was approved in 2013 and has no knowledge of 802.3ca.

#### SuggestedRemedy

There are (at least) three possible solutions:

1) Table 143-3 provides no new information compared to the preceding Figure 143-10. In addition to everything that the table shows, the figure provides such details as the bit order for various fields and how the header is split across two 25GMII transfers. So, just delete the table.

2) Change bits E and K to "reserved" and delete all references to IEEE1904.1

Response Status C

3) If there is a strong desire to lock the bits E and K to 1904.1 (which is too presumptive at this time), then the footnote should say "Reserved for IEEE Std 1904.1". Only one footnote is needed for both bits. If we decide to go this route, in the description column, we should provide the full description of these bits instead of just E and K.

The commenter prefers solution #1.

Response

ACCEPT IN PRINCIPLE.

Implement option #1

In Figure 143-10, in the legend, change the description of K bit to read: "Encryption Key (reserved, not for use by IEEE Std 802.3)"

In Figure 143-10, in the legend, change the description of E bit to read: "Encryption Enabled (reserved, not for use by IEEE Std 802.3)"

Strike sentence "The envelope header shall use the format shown in Table 143–3." + remove Table 143-3 + remove associated PICS.

Change first para under 143.3.2 to read as follows + update PICS

"Each envelope initiated by the MCRS begins with a 72-bit envelope header. The envelope header shall be as shown in Figure 143–10. The envelope header includes a Start Control Code, an EnvType flag bit, a 22-bit Envelope Length field, an Envelope Position Alignment Marker (EPAM) field, two bits (E and K) reserved for encryption purposes, an LLID field, and an 8-bit cyclic redundancy check (CRC8)."

Move the following two sentences into the next para under Figure 143-10, right before the existing para:

"When the xMII is 36-bits wide the transmission envelope header, as illustrated in Figure

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

 control bits followed by 32 information bits."

 Cl
 143
 SC
 143.3.2.1
 P157
 L43
 # 53

 Hajduczenia, Marek
 Charter Communications

 Comment Type
 E
 Comment Status
 A
 bucket

 The statement "The following test sequences show" is not clear, since associated tables are on the next page.
 SuggestedRemedy

143-10, includes two successive transfers over the xMII. Each 36-bit transfer includes four

Change "The following test sequences show" to "The test sequences in Table 143-4, Table 143-5, and Table 143-6 show"

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

ACCEPT.

C/ 143	SC 143.3.3	P <b>158</b>	L1	# 273
Marris, Ar	thur	Cadence Des	sign Systems	
Comment	Type E	Comment Status R		

Why is some text shaded in Table 143-4?

#### SuggestedRemedy

Remove shading of CRC8 and other shading if appropriate.

Response	Response Status	С
		•

REJECT.

Shading helps to highlight CRC8 field values in different representations. As footnotes to tables 143-4, 143-5, and 143-6 explain, the gray highlight indicates location and calculated value of CRC8 field.

C/ 143	SC 143.3.3.2	P1	59	L <b>42</b>	# 176	
Remein, D	Duane	Futur	ewei T	echnologies, Inc.		
<i>Comment</i> "are be		Comment Status e "are to be added"				bucket
Suggested per co	<i>IRemedy</i> mment					
Response ACCE		Response Status	С			

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C/ 143 SC 143.3	.3.3 <i>P</i> 161	L <b>37</b>	# 337	C/ 143 SC 143.3.	3.5 P162	L <b>20</b>	# <u>3</u> 67
Laubach, Mark	Broadcom			Hajduczenia, Marek	Charter Cor	nmunications	
Comment Type E	Comment Status A		bucket	Comment Type ER	Comment Status A		bit-orde
	idea to avoid hypenating contant ng confusing interpretation betwe			other cases, we sho	ontHeader and EnvStartHead w ranges starting from higher a ranges are reversed		
SuggestedRemedy				SuggestedRemedy			
Remove the line br	eaking.			Reverse the bit orde	r, for example hdr<0:7> shoul	d become hdr<7:0	>
Response ACCEPT.	Response Status C			Response ACCEPT IN PRINCI	Response Status <b>C</b> PLE.		
C/ 143 SC 143.3	.3.3 <i>P</i> 161	L <b>44</b>	# 338	See comment #263			
Laubach, Mark	Broadcom			C/ 143 SC 143.3.	3.5 <i>P</i> 163	L <b>28</b>	# 360
Comment Type E	Comment Status A		bucket	Hajduczenia, Marek	Charter Cor	nmunications	
End of sentence for	Description needs a period.			Comment Type T	Comment Status A		
SuggestedRemedy				51	EQ structure is missing. It is d	lefined through a c	comment only
Add the period to the	ne end of sentence.			SuggestedRemedy	-	-	-
Response ACCEPT.	Response Status C				ill be needed, perhaps using ( y are defined?	C++ style for class	es, showing fields
C/ 143 SC 143.3	.3.4 <i>P</i> 161	L11	# 177	struct EQ {			
Remein, Duane	Futurewei Teo	chnologies, Inc.		bool Control[8]; int8u Data [8];			
Comment Type E	Comment Status A	0	bucket	}			
"is also as the row i	ndex" should be "is also used as	the row index"		Response	Response Status C		
SuggestedRemedy				ACCEPT IN PRINCI	PLE.		
per comment				Change			
Response ACCEPT.	Response Status C			"// Consists of 8 bits // and 8 octets of dat	of control (Ctrl[0…7]) ta (Data[0…7])"		
				to			
					of control (Ctrl[0…7]) a (Data[0…7]), as shown in F	igure 143–2"	

C/ 143 SC 143.3.3.5 Page 66 of 103 9/17/2019 11:11:44 AM

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C/ 143 SC 1	143.3.3.5	P <b>163</b>	L <b>32</b>	# 366		C/ 143	SC 143.3.3	3.5	P163	L <b>33</b>	# 311
Hajduczenia, Mare	ek	Charter Comr	nunications			Lynskey, E	ric		Broadcom		
Comment Type "," versus ";"	Е	Comment Status A		b	ucket	Comment T GetMa		Commen on is not defined	t Status A		GetMacOctet
<b>U</b> (	ctet_index	= 0; octet_index < 8, octet_ <<<< octet_index++ )", chan Response Status <b>C</b>	- ,	( _ /		one of primitiv	s an 8-bit vect four values: C	ONE, ZERO, D	ATA_COMPLETE	E, or IDLE. If th	s. Each bit may take e PLS_DATA.request IPLETE, a value of
ACCEPT.						Response		Response	Status C		
C/ 143 SC 1	143.3.3.5	P163	L <b>32</b>	# 178		ACCER	PT IN PRINCI	PLE.			
Remein, Duane		Futurewei Teo	chnologies, Inc.			Update	definitions of	GetMacOctet	and IsIdle functio	ns per	
Comment Type	TR	Comment Status A		GetMac	Octet	http://w	ww.ieee802.c	org/3/ca/public/r	neeting_archive/	2019/07/kramer	_3ca_10a_0719.pdf
GetMacOctet	and IsIdle	are not defined				C/ 143	SC 143.3.3	3.5	P163	L <b>34</b>	# 312
SuggestedRemedy	ly					Lynskey, E	ric		Broadcom		
Add in alpha o GetMacOctet with the passe	(link_id) a	function that returns eight bi ink_id.	its of data from t	he MAC associated	b	Comment			t Status A		GetMacOctet
ACCEPT IN P See comment	#311						PT IN PRINCI		Status C		
	143.3.3.5	P163	L33	# 359		C/ 143	SC 143.3.3	3.6.2	P165	L1	# 361
Hajduczenia, Mare		Charter Comr	nunications	<b>A</b> 111		Hajduczen	a, Marek		Charter Comm	nunications	
Comment Type Function GetN		Comment Status A used but not formally specif	fied anywhere.	GetMac	Octet	Comment	Гуре <b>т</b>		t <i>Status</i> <b>A</b> lized in the state	diagram or des	cription.
SuggestedRemedy Insert a formal	•	of GetMacOctet() function a	as follows:			Suggested Add ini		ue to state INIT	in Figure 132-12		
	ctet() func	d) tion retrieves one octet (8 bi turns it to the calling functio	,	a MAC identified by	/ the	Response	PT IN PRINCI	Response	Status C		
Response ACCEPT IN P	RINCIPLE	Response Status <b>C</b>				Add ini	tialization valu	ue (0) to state II	NIT in Figure 143	-12	
See comment	#311										
COMMENT STAT	US: D/disp	ER/editorial required GR/g patched A/accepted R/reject clause, page, line			-		U/unsatisfied	d Z/withdrawn	C/ 143 SC 143	3 3.3.3.6.2	Page 67 of 103 9/17/2019 11:11

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	-						•					
C/ 143	SC 143.3.3.6.2	P165	L1	# 365	C/ 143	SC 143.3.3	.6.2 P16	5 L15	# 364			
Hajduczeni	a, Marek	Charter Com	munications		Hajducze	nia, Marek	Charte	r Communication	s			
Comment Type TR Comment Status D					Comment	туре т	Comment Status	כ				
where i	re 143-12, data starts bein it is set to 0, and then NEX	T_ROW where it i	s set immediately	to 1 before any data	Name done	e of CHECK_EN in this state, all	V_SIZE state is rather in it does it prepare filler part of the state	I-fitting - there is attern in case the	no envelope size checking re is no data to send			
	en into EnvTx), while Figure that at the start of the start				SuggestedRemedy							
defined	l in any way.	e diagram, state a			Chan patter		ECK_ENV_SIZE state to	PREP_FILLER	(for preparing filler EQ			
Suggested	•	andition in Figure (	sitialization of Ex. Tuin	Proposed	Response	Response Status	Z					
Suggest to change initialization condition in Figure 143-13 to match initialization of EnvTx in Figure 143-12, i.e., change rRow < 0 to rRow < 1. Index wrap-around will do the rest and we can avoid the problem altogether.						REJECT.						
Proposed F		se Status Z			This comment was WITHDRAWN by the commenter.							
REJEC					C/ 143	SC 143.3.3	.6.2 <i>P</i> 16	5 L15	# 363			
This co	mment was WITHDRAWN	I by the commont	or.		Hajducze	nia, Marek	Charte	r Communication	s			
		by the commente	<b>H</b> .		Comment Type T Comment Status A							
C/ 143	SC 143.3.3.6.2	P <b>165</b>	L <b>3</b>	# 489		e of CHECK_HE mpty in fact	ADER state is rather ill-	fitting - there is no	o header check in this state,			
Law, David		Hewlett Pack	ard Enterprise		Suggeste	dRemedy						
Comment T Subcla	Type ER Comme sue 2.6.3 'Draft Standard F	ent Status <b>A</b> Formatting Require	ements' of the IEE	<i>redraw</i> E 802.3 Operations		ge name of CHE send request in		FETCH_ENV (for	fetching envelope if MCRS			
	I states that 'The draft mus				Response	e	Response Status	C				
	Im this shall be completed ft be maintained in this for				ACCE	EPT IN PRINCIF	LE.					
some o	of the state diagrams are no le 143-12 and 143-13.				Change "CHECK_HEADER" to "CHECK_NEW_ENV"							
Suggested	Remedy				C/ 143	SC 143.3.3	.6.2 P16	5 L15	# 362			
	that Figures are converted				Hajducze	nia, Marek	Charte	r Communication	s			
	o ensure that any errors cr e. If you need help in doing			ught as soon as	Comment	Type E	Comment Status	4	bucket			
Response	Respon	se Status <b>C</b>					to be using "*" symbol o ied to use the new set o		" logical operation. All other s one was left behind			
ACCEF	PT IN PRINCIPLE.				Suggeste	dRemedy						
See co	mment #98				Chan	ge all instances	of "*" to "AND" in Figure	9 143-12				
					Response	e	Response Status	C				

ACCEPT.

C/ 143 SC 143.3.3.6.2

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C/ 143 SC 143.3.	3.6.2 P165	L <b>36</b>	# 339	C/ 143 SC	143.3.4.4	P169	L15	# 265
Laubach, Mark	Broadcom			Kramer, Glen		Broadcom		
Comment Type TR	Comment Status A			Comment Type	TR	Comment Status A		
	DF, it looks like a hypen at th the end of "EnvLeft[wCol]		ol]-" rather than a			er is formed, the CRC8 is can is received, the IsHeader()		
SuggestedRemedy				bits 0 through	63. These	CRC8 values will never mat	ch.	
Confirm it should be	e a minus 1 '" and make it v	isibly clear.		SuggestedRemed	ły			
Response	Response Status <b>C</b>				( )/	replace the line		
, ACCEPT.	·····			"eq<64:71> = with the line	= CRC8(eq	<0:63>));"		
				"eq<71:64> =	= CRC8(eq-	<63:8>));"		
C/ 143 SC 143.3.		L <b>9</b>	# 264	Response		Response Status C		
Kramer, Glen	Broadcom			ACCEPT.				
Comment Type TR	Comment Status A			C/ 143 SC	143.3.4.4	P169	L <b>28</b>	# 266
	ocess (Fig 143-13) and MCRS according to EQ format defir			Kramer. Glen	143.3.4.4		L <b>20</b>	# 200
SuggestedRemedy					F	Broadcom Comment Status A		huaka
,	diagrams as shown in kramer	_3ca_1_0719.pdf		Comment Type Incorrect form	E nat for a hex	adecimal numeric value		bucke
Response ACCEPT.	Response Status C			SuggestedRemed		n 0x0A-0A-0A-0A		
				•				
C/ 143 SC 143.3.	4.3 P168	L <b>43</b>	# 179	Response		Response Status C		
Remein, Duane	Futurewei	Technologies, Inc.		ACCEPT.				
Comment Type E	Comment Status A		bucket	C/ 143 SC	143.3.4.4	P <b>169</b>	L <b>36</b>	# 180
"RX	ana a tha line			Remein, Duane		Futurewei Tec	hnologies, Inc.	
CLK[ch]" should not	cross the line.			Comment Type	Е	Comment Status A		bucket
SuggestedRemedy						/lac(int16 link_id, EQ eq) m		
per comment				comments on { // including /		as instruction, combining co	mments "// Rx ot	her ctrl. character
Response	Response Status C			SuggestedRemed	,			
ACCEPT.				per comment	'Y			
				Response		Poononoo Statua		
				ACCEPT.		Response Status C		
				ACCEPT.				

C/ 143 SC 143.3.4.4

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X 143 SC 143.3.4.5.1	P171	L <b>21</b>	# 181	C/ 14	SC 143.3.4.	5.2	P <b>172</b>	L <b>21</b>	# 182			
Remein, Duane	Futurewei Te	chnologies, Inc.		Reme	in, Duane		Futurewei Te	chnologies, Inc.				
Comment Type TR	Comn	Comment Type TR Comment Status A										
Variable wRow as defined				N	eed to latch localtim	e on ESH.						
PARSE_HEADER state it	is been assigned a 5 bit v	alue. These two	sizes should agree.	Sugge	stedRemedy							
SuggestedRemedy Change RxEQ<4:0> to R:	(FQ<5:0>				Between PROCESS_HEADER and UPDATE_ENV_SIZE add the following: New state: "CHECK_FOR MPCPDU" Action: none Exit 1 to UPDATE_ENV_SIZE: else Exit 2 to 2nd new state: LinkID[rCol] (is a member of) {TS_LLID}							
	Response Status <b>C</b>			A								
ACCEPT IN PRINCIPLE.												
See comment #264				A	nd new state: "CAPT ction: TS( Plid ) <= L kit to UPDATE_ENV	₋ocalTime	TAMP"					
				T: T:	efine new variables: S_LLID /pe: list of PLIDs		-					
				Lo Ty	escription: A list of a ocalTime vpe: 32-bit unsigned se 144.2.1.2		5.					
				Respo	onse	Response	Status C					
				A	CCEPT IN PRINCIP	LE.						
					CRS cannot check to calTime in MCRS.			n of frames. No th	ere is a concept of			
					se http://www.ieee80 th the following cha		blic/meeting_ar	chive/2019/07/kra	mer_3ca_4_0719.pdf			
				-	MCRS_ECH needs	to be changed	I to MCRS_ESH	ł				
				=:								
				U	odates to definition	of ProcessTim	estamp are also	o needed. Here is	the raw text			
				TI di fu th va O	reshold <i>DRIFT_1</i>	e PLID and a e local time ar her the timesta THOLD. In value of the r asures the RT	parameter <i>T and the timestam amp drift has ex the ONU, this f eceived <i>Time T value when th</i></i>	p value in a receiv ceeded the prede function sets the < estamp field (some first timestamp	ved MPCPDU. This fined device-specific i>LocalTime see 144.3.1.1). In the ed MPCPDU is			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 143

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 143.3.4.5.2

 SORT ORDER: Clause, Subclause, page, line
 SC
 143.3.4.5.2
 SC

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	1 <i>P</i> 174	L <b>8</b>	# 183	C/ 143 SC	0 143.4.1.1	P <b>174</b>	L <b>42</b>	# 389
Remein, Duane	Futurewei Tec	hnologies, Inc.		Dawe, Piers		Mellanox		
Comment Type <b>T</b>	Comment Status A			Comment Type	Е	Comment Status A		
	agreed to use xMII where approp	riate. Also the 25	GMII supports 10	Unnecessa	y line break			
, , ,	in a very obtuse manor.			SuggestedRem	ədy			
SuggestedRemedy				Also at line	45			
MAC sublayer and 2	G-EPON architecture serves as SGMII. The 25GMII interfaces has G-EPON architecture serves as	ave the following	characteristics:" to	Response ACCEPT IN	PRINCIPLE	Response Status <b>C</b>		
	xMII interfaces have the following			Change wid	th of the tabl	e to match current line width	۱.	
Response	Response Status C			C/ 143 SC	143.4.1.2	P175	L <b>4</b>	# 185
ACCEPT IN PRINC	PLE.			Remein, Duane		Futurewei Teo	chnologies, Inc.	
Comment type chan	ged to "T"			Comment Type	т	Comment Status A		143.4.4
	, change "They are capable of s 5GMII is rate-scalable and may s			MCRS impl		suitable reference to support supporting the channel rate		"Additional details for
7 143 SC 143.4.	1.1 <i>P</i> 174	L17	# 184	SuggestedRem	ədy			
emein, Duane	Futurewei Tec	hnologies, Inc.		Strike the st	atement			
Comment Type E	Comment Status A	-	bucket	Response		Response Status C		
There is no need for used)	an abbreviation which is never u	used (to say nothi	ng of confusing if		PRINCIPLE			
Numera a ta al Dana a aku				Comment ty	pe changed	to "T"		
suggesteakerneay				This points	to missing de	etails in MCRS specification	. Nowhere do we	define how to achieve
SuggestedRemedy Strike "(DC)" and "(L	JC)"							define now to achieve
Strike "(DC)" and "(U	JC)" Response Status <b>C</b>				behavior. Ke	ep the reference for now and		
Strike "(DC)" and "(l esponse ACCEPT.	Response Status C			assymetric is needed.	behavior. Ke	ep the reference for now and P175		
Strike "(DC)" and "(L Response ACCEPT. C/ 143 SC 143.4.	Response Status C	L <b>30</b>	# 404	assymetric is needed.	C 143.4.1.2	•	d add editors not	e that section 143.4.4
Strike "(DC)" and "(L Pesponse ACCEPT. 7 143 SC 143.4. Dawe, Piers	Response Status C 1.1 P174 Mellanox	L <b>30</b>		assymetric is needed. C/ 143 SC	C 143.4.1.2	P175	d add editors not	# <u>54</u>
Strike "(DC)" and "(L Response ACCEPT. C/ 143 SC 143.4. Dawe, Piers	Response Status C	L <b>30</b>	# 404 bucket	assymetric is needed. Cl 143 SC Hajduczenia, M Comment Type Reference i	<b>143.4.1.2</b> arek <b>E</b> n red	P <b>175</b> Charter Comr	d add editors not	# <u>54</u>
Strike "(DC)" and "(L Response ACCEPT. C/ 143 SC 143.4. Dawe, Piers Comment Type E Nx25GEPON	Response Status C 1.1 P174 Mellanox	L <b>30</b>		assymetric is needed. Cl 143 SC Hajduczenia, M Comment Type Reference i SuggestedRem Strike state	<b>E 143.4.1.2</b> arek E n red edy	P175 Charter Comr Comment Status A	d add editors not	# <u>54</u> 143.4.4
Strike "(DC)" and "(L Response ACCEPT. Cl 143 SC 143.4. Dawe, Piers Comment Type E Nx25GEPON SuggestedRemedy	Response Status C 1.1 P174 Mellanox	L <b>30</b>		assymetric is needed. Cl 143 SC Hajduczenia, M Comment Type Reference i SuggestedRem Strike state	<b>E 143.4.1.2</b> arek E n red edy ment "Additic	P175 Charter Comr Comment Status A	d add editors not	# <u>54</u> 143.4.4
Strike "(DC)" and "(L Response ACCEPT. Cl 143 SC 143.4. Dawe, Piers Comment Type E Nx25GEPON SuggestedRemedy Nx25G-EPON	Response Status C 1.1 P174 Mellanox Comment Status A	L30		assymetric is needed. Cl 143 SC Hajduczenia, M Comment Type Reference i SuggestedRem Strike state asymmetry Response	<b>E 143.4.1.2</b> arek E n red edy ment "Additic	P175 Charter Comm Comment Status A onal details for MCRS impler in 143.4.4" Response Status C	d add editors not	# <u>54</u> 143.4.4

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

C/ 143 SC 143.4.1.2 Page 71 of 103 9/17/2019 11:11:44 AM

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C/ 143 SC 143.4.1.2	P175	L <b>5</b>	# 313	C/ 143 SC 143.4.1.2	P175	L10	# 36
Lynskey, Eric	Broadcom			Hajduczenia, Marek	Charter Comn	nunications	
Comment Type E Subclause 143.4.4 does	Comment Status <b>A</b> s not exist.		143.4.4	Comment Type ER "can" used and not inten	Comment Status A ded per Style Guide		can-vs-maj
SuggestedRemedy Remove the sentence. Response	Response Status <b>C</b>				nber asymmetry mechanism hanisms may be combined"	ms can be combir	ned" to "the channel
ACCEPT IN PRINCIPLE	-			Response ACCEPT.	Response Status C		
See comment #185           C/ 143         SC 143.4.1.2	P175	L <b>5</b>	# 388	C/ 143 SC 143.4.1.3.2 Hajduczenia, Marek	P <b>175</b> Charter Comn	L <b>39</b> nunications	# 37
Dawe, Piers Comment Type E Apparent cross-referenc SuggestedRemedy	Mellanox Comment Status A ce in red "143.4.4" doesn't wo	rk.	143.4.4	Comment Type ER "can" used and not inten SuggestedRemedy Change "buffer can be re rows"	Comment Status A ded per Style Guide educed to only two rows" to	"buffer may be re	can-vs-may duced to only two
Response ACCEPT IN PRINCIPLE	Response Status <b>C</b>			Response ACCEPT.	Response Status C		
See comment #185				C/ 143 SC 143.4.2	P176	L <b>2</b>	# 186
C/ 143 SC 143.4.1.2	P175	L5	# 340	Remein, Duane	Futurewei Tec	chnologies, Inc.	
Laubach, Mark Comment Type E	Broadcom Comment Status A	-	bucket	Comment Type E Missing "The"	Comment Status A		bucke
	roper crossref and not just RE	ED in colorf.	Subnot	SuggestedRemedy			
SuggestedRemedy Make it a proper cross r Response	. ,			and at line 14 before "PC	S always sets the write point CS receiver synchronizes on III and is received into … " .T MCRS EnvRx buffer."		imiter"
ACCEPT.				Response ACCEPT.	Response Status C		

C/ 143 SC 143.4.2

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C/ 143	SC 143.4.2	P176	L <b>28</b>	# 187	C/ 144
Remein, Du	uane	Futurewei Tee	chnologies, Inc.		Thompson, C
Comment 7	Type TR	Comment Status A			Comment Ty
What is	a DSC_PLID?				This clau
Suggestedl	Remedy				This is a protocols
Change	e to DISC_PLID				creation
Response		Response Status C			SuggestedRe
ACCEF	РТ.				Rewrite t lause 14
C/ 143	SC 143.4.3	P <b>176</b>	L <b>45</b>	# 188	Response
Remein, D	uane	Futurewei Te	chnologies, Inc.		REJECT
Comment 7	Гуре <b>E</b>	Comment Status A		bucket	
l believ	e MPCP has alr	eady been introduced in this	clause		The PAF Optical N
Suggestedl	Remedy				Operatio
Change	-				Point Co
		otocol (MPCP)" to			to provid new MP0
"MPCP	,"				specifyin
Response		Response Status C			are nume
ACCEF	РТ.				The TF s
C/ 143	SC 143.5.4.2	P179	L <b>6</b>	# 106	Optical N
Anslow, Pe	te	Ciena			that all th 64 or Cla
Comment 7		Comment Status A			new clau
	51	the "Status" column of PICS	table are defined	d in 21.6.2 of the base	convenie
		ot include "+" as an "or" funct			the simp of the ex
Suggestedl	Remedy				
Change	e "+" to "or" as p	er previous amendments			C/ 144
Response		Response Status C			Remein, Dua
ACCEF	РТ.				Comment Ty
					MP9b sh
					SuggestedRe
					per comr
					Response

SC 144 P180 L1 # 464 Geoff GraCaSI S.A./Independent TR Comment Status R vpe ause is out of scope. It is shown in Fig. 144-2 as residing in the MAC sub-layer. a Physical Layer project which said it would "extend the operation of EPON Is". That means to me the augmentation of what is specified in clause 64, not the of an entire new specification misplaced in the Physical Layer. Remedy the draft to fit what was promised in the PAR. Presumably that will include deleting 44. Response Status U Т. R scope states that this project "... also extends the operation of Ethernet Passive Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP) and on Administration and Management (OAM)." Just like previous generations of Multiontrol Protocol (MPCP), the new generation uses GATE and REPORT MPCPDUs de time-based transmission arbitration for multiple connected ONUs. However, the PCP extends the existing MPCP specification by supporting multiple channels, and ing finer granularity for transition units (2.56 ns EQs instead of 16 ns TQs). There nerous other enhancements. strongly disagrees that the statement "extends the operation of Ethernet Passive Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP)" implies the changes need to be confined to one of the existing MPCP clauses (see Clause lause 77), and not be defined as a new clause. The TF made a decision to create a use instead of modifying an existing clause for clarity of presentation and for the ience of users of the standard. This is not unlike an earlier WG decision to specify plified full-duplex MAC as a separate Annex 4A instead of modifying the operation existing CSMA/CD MAC in Clause 4. SC 144 P244 L6 # 254 Futurewei Technologies, Inc. lane TR Comment Status A

vpe hould ref 144.3.7.7 not 144.3.8.7.

Remedv nment

Response Status C

ACCEPT.

C/ 144 SC 144

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	<b>D</b> • • •							
C/ 144 SC 144.1	P <b>180</b>	L12	# 189		0 144.1	P <b>180</b>	L <b>20</b>	# 190
Remein, Duane	Futurewei Teo	chnologies, Inc.		Remein, Duane		Futurew	ei Technologies, Inc	
Comment Type TR	Comment Status A			Comment Type	Е	Comment Status A		bucket
We report queue occu	pancy levels not congestion.			Missing "the	e", "a", or "	an"		
SuggestedRemedy				SuggestedReme	ədy			
Change: "reporting of congestive "reporting queue occu <i>Response</i> ACCEPT. Comment type chang	pancy" Response Status <b>C</b>			At the follow 180/20 "TDI medium" 181/27 "bind 183/3 "upstr 186/5 "enve over _a_mi 187/1 "For a 187/1 "For a 187/11 "MP 189/35 "To a achieve this 190/11 "tran DISCOVER 193/12 "of C Process" -> Registration 195/26 "may PLID, MLID 208/49 "regi 214/43 "tran 214/48 "tran	ding each ream trans lope trans lope trans lope trans divertans docuracy o CPDU is r achieve th goal, _the smits DIS Y MPCPD SATE Gen "of _the o completing y only com , or ULID, istered ON asmitting a smitting a	ons (pg/line) change "" to ccess to P2MP medium" instance of MAC" -> "bir imissions in EPON" -> "b mission over multi-chanr el P2MP media" f receive clock" -> "For a eceived from MAC" -> "N is goal, MPCP includes p e_ MPCP includes proces COVERY MPCPDU with U with a timestamp valuu- eration Process and a se GATE Generation Proce on Process" tain PLID, MLID, or ULID but never _a GLID" IUS using unicast" -> "reg t line rate" -> "transmittin bwn time" -> "timer count	-> "TDM-based acc nding each instance upstream transmissi hel P2MP media" -> ccuracy of _the_ red IPCPDU is received processes that measure _ timestamp value" -> e" (2x) eparate instance of F ss and a separate in the but never GLID" -> gistered ONUs using g at a line rate" ig at a line rate"	of _a_ MAC" ons in _an_ EPON" "envelope transmission ceive clock" from _the_ MAC" ure range" -> "To the_ range" (2x) > "transmits a Registration Completion istance of _the_ "may only contain _a_
				227/18 "ON receiving a	U is capat DISCOVE smitted by	ole of receiving DISCOVE RY MPCPDU" y the OLT on DISC_PLID	ERY MPCPDU" -> "(	
				_	U skips su	ich discovery attempt" -> )	"ONU skips such di	scovery attempts"
				Response		Response Status C		
				ACCEPT.				

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144	SC 144.1	P <b>180</b>	L <b>21</b>	# 341	C/ 144	SC 14	44.1.1.2	P181	L <b>40</b>	# 193
aubach, N	Mark	Broadcom			Remein, D	Juane		Futurewei T	echnologies, Inc.	
Comment	Туре Е	Comment Status A		bucket	Comment	Туре	TR	Comment Status A		
Bullets Suggested		nt endings, one ends in a peri	od, the other do	esn't.		ara implie is incorre		se of pre-defined single-co	py broadcast for a	number of purposes
00		have consistent (or appropria	ate) line endings	3	Suggested	lRemedy				
Response ACCEI	PT IN PRINCIPLI	Response Status C			broado CCPD "Seve	ral single- cast MPC Us, or O/ ral single-	PDÚs, AMPDUs	adcast logical links are pre ." to: adcast logical links are pre		
C/ 144	SC 144.1.1.1	P180	L <b>45</b>	# 191		144-1)."		Deserves Status		
Remein, D	uane	Futurewei Tec	hnologies, Inc.		Response ACCE	рт		Response Status C		
Comment	Туре <b>т</b>	Comment Status A	0		ACCL	ΓΙ.				
Hopefu	Illy we allocate m	ore than one grant to each O	NU		C/ 144	SC 14	44.1.1.2	P <b>181</b>	L <b>49</b>	# 194
Suggested	Remedy				Remein, D	Juane		Futurewei T	echnologies, Inc.	
Chang	e				Comment	Туре	TR	Comment Status A		
		on window (grant)" to windows (grants)"						eous and misleading imho those that are not very "dy		
Response		Response Status C			Suggested	lRemedy				
Chang	to "This arbitratio	E. n is achieved by allocating a t on is achieved by allocating tr			Discov If the <sup>-</sup> chang	/ery Proc FF believ	ess (144 e it is neo ault, the	cessary to mention the Dis OLT is connected" to "By o	covery Process in	this section then
C/ 144	SC 144.1.1.2	P181	L <b>24</b>	# 192	Response			Response Status C		
Remein, D	uane	Futurewei Tec	hnologies. Inc.		ACCE	PT IN PF	RINCIPLE			
Comment	Type ER	Comment Status A e of "MAC element"	0					me LLID values are pre-se ery Process (144.3.5)."	t, while other value	s are dynamically
S <i>uggested</i> Chang	<i>Remedy</i> e to "MAC instan	ces"						lowing the sentence "By de ed during the Discovery Pr		
Response ACCEI	от	Response Status C								

C/ 144 SC 144.1.1.2 Page 75 of 103 9/17/2019 11:11:44 AM

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144 SC 144.1.1.	B P183	L <b>4</b>	# 38	C/ 144 SC 144.1.4.	2 <i>P</i> 184	L10	# 044
	Charter Comn	-	# 38			<i>L</i> 10	# 314
Hajduczenia, Marek	Comment Status R	nunications		Lynskey, Eric	Broadcom Comment Status A		huala
Comment Type ER "can" used and not int			can-vs-may	Comment Type E Multiplexor	Comment Status A		bucke
	ended per Style Guide			•			
SuggestedRemedy				SuggestedRemedy			uttin lawan karakan na d
	cted ONU can be scheduled for be scheduled for the upstream		ransmission to newly		ore frequently. Suggest that a d 45. Page 186 line 33. Page		
Response	Response Status C			Response	Response Status C		
REJECT.				ACCEPT.			
"Can" (i.e., "is able" or permitted") is semanti	"is capable") is correct and is cally wrong here	intended. "May"	(i.e., "is allowed" or "is	C/ 144 SC 144.1.4.		L45	# 196
C/ 144 SC 144.1.1.	B P183	L <b>8</b>	# 195	Remein, Duane Comment Type ER	Comment Status A	chnologies, Inc.	
Remein, Duane		chnologies, Inc.	π 195	"MCI:MA -			
Comment Type E	Comment Status A	mologies, mc.	bucket	CONTROL indication	' crosses the line		
"registration requests"			DUCKEI	SuggestedRemedy			
"details" at line 13 too.				make non-breaking			
SuggestedRemedy				Response	Response Status <b>C</b>		
per comment				ACCEPT.			
Response	Response Status C			C/ 144 SC 144.1.4.	2 <i>P</i> 184	L45	# 3
ACCEPT.							# 3
C/ 144 SC 144.1.3	P183	L26	# 2	Hajduczenia, Marek	Charter Com	nunications	h
			# 2	Comment Type E	Comment Status A		bucke
Hajduczenia, Marek	Charter Comn	nunications		Name of primitive is b	iroken across imes		
Comment Type E	Comment Status A		bucket	SuggestedRemedy			
Empty lines Similar issue in 144.1.	4				ames do not break across line	s.	
SuggestedRemedy				Response	Response Status C		
Remove the empty lin	es			ACCEPT.			
Response	Response Status C						

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IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144 SC	144.1.4.4	P18	6 <i>L</i>	.3	# 197		C/ 144	SC 144	4.2.1	P <b>186</b>	L <b>27</b>	# 198
Remein, Duane		Future	wei Technolog	gies, Inc.			Remein, D	uane		Futurewei Te	chnologies, Inc.	
Comment Type MCRS alread	E by introduce	Comment Status	<b>A</b>			bucket	<i>Comment</i> Use of		<b>'R</b> timestar	Comment Status <b>A</b> np is ambiguous:		
"MCRS (see Response	el Reconcilia Clause 143)	Response Status		e 143)" to			187/30 187/33 187/52 187/53 188/2	<ul> <li>the variation</li> <li>a non itation</li> <li>"timestation</li> <li>a field nationalization</li> </ul>	ing othe able tha alicized amp valu ame "Tin	r than (LocalTime?) the var t is being defined	the same as the	variable)
ACCEPT IN	-						192/24 I could	- a field v go on;	alue "th	e Timestamp field value" (		
C/ <b>144</b> SC Hajduczenia, Ma	144.1.4.4 rek	P18 Charte	5 L r Communica	. <b>4</b> tions	# 4		lone in there	stance of are 29 ins	"Timestastances	amp drift" in Deregistration <sup>-</sup> of "timestamp" none of whit 1 instances of "timestamp	Frigger definition)	, , ,
Comment Type MCRS primit		Comment Status				bucket	We ca	n be nicer	to the fi	rst time reader.		
		Jeiore					Suggested	-				
uggestedReme Change "sub		S, see Clause 143)."	to "sublayer	see Clause	43)."			mein_3ca change ma		9.pdf which shows all chang	jes in marked tex	t (remein_3ca_3_0719
Response		Response Status	C				Response			Response Status C		
ACCEPT.							ACCE	PT IN PRI	NCIPLE			
							http://v - 186 '2 - 186 '4 - 190 ' it sets MPCP LocalT - 190 '2 - 190 '2	ww.ieee8 27-30 40 16, change its LocalTi DU." "Whe ime count 20 26-30	e text "V ime cou en an ur ter base	changes from 3/ca/public/meeting_archive When an unregistered ONU nter according to the value nregistered ONU receives th d on the value in the Times hange to TimestampTx	receives the DIS in the Timestamp e DISCOVERY N	COVERY MPCPDUs, field in the received IPCPDUs, it sets its
							- 199 '/ MPCP field is - 201 '/ <i>Tim time of - 243 '/ - 247 '/</i>	41, use the DU. REPC used by th 5, use the estampthat ONU 17 39, use the	e followi DRT MP he OLT followir i> field. J (see 14 e followi	ng "Up to seven LLIDs can CPDUs also carry the <i>T to check for the timestamp og text: "The REGISTER_R The value of this field is use 44.3.1.1)." ng text: "The value of the &lt; exposed through the client i</i>	imestamp fiel drift error (see 14 EQ MPCPDUs ca ed by the OLT to >Timestamp	d. The value of this l4.3.1.1)." arry the measure the round-trip

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/144Page 77 of 103COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC144.2.19/17/2019 11:11:44 AMSORT ORDER: Clause, Subclause, page, lineSC144.2.19/17/2019 11:11:44 AM

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144 SC 144.2.1	P186	L <b>27</b>	# 5	C/ 144 S	C 144.2.1.2	P187	L1	# 480
Hajduczenia, Marek	Charter Comm	nunications		Slavick, Jeff		Broadcom		
Comment Type E We usually use the terr else	Comment Status A n "forward" to describe the ac	tion of delivering	<i>bucket</i> g frames somewhere	Comment Type TBD preser	TR nt for LocalTim	Comment Status A e reference.		TBL
SuggestedRemedy	frames" to "forwarding these	frames"		SuggestedRem Replace TE	3D with pointer	to appropriate refernce cla	use	
Response ACCEPT.	Response Status C			Response ACCEPT IN	N PRINCIPLE.	Response Status <b>C</b>		
C/ 144 SC 144.2.1.2	P186	L53	# 199	See commo	ent #269			
Remein, Duane	Futurewei Tec	hnologies, Inc.		C/ 144 S	C 144.2.1.2	P <b>187</b>	L1	# 200
Comment Type TR	Comment Status A			Remein, Duane	9	Futurewei Teo	hnologies, Inc.	
	ecific about which TX & Rx clo	ocks are being re	eferred to here.	Comment Type	TR	Comment Status A		
SuggestedRemedy Change		0		this variable	e is updated wi	correct or the Control Parso th the received timestamp at the ProcessTimestamp of	value by the Co	ontrol Parser Process
	shall track the transmit clock	, while at the Of	NU the counter shall	SuggestedRem	edv		-	
track the receive clock. "At the OLT the counte shall track the xMII rece	shall track the xMII transmit	clock, while at th	ne ONU the counter	Copy the "/ LocalTime	/ The following	line is executed only in the lines to the end of the else		ProcessTimestamp
Response	Response Status C			Response	<b>o</b> ,	Response Status <b>C</b>		
ACCEPT IN PRINCIPL	Ε.			•	N PRINCIPLE.			
Change "At the OLT the counte	shall track the transmit clock	x, while at the Of	NU the counter shall	See commo	ent #182.			
track the receive clock. "At the OLT the counte	' to <sup>-</sup> shall track the 25GMII transi	nit clock, while a	at the ONU the counter	C/ 144 S	C 144.2.1.2	P187	L1	# 278
shall track the 25GMII i				Marris, Arthur		Cadence Desi	gn Systems	
Update PICS.				Comment Type {TBD refere	TR ence to Clause	Comment Status A 142 needed}		TBL
C/ 144 SC 144.2.1.2	P <b>187</b>	L1	# 269	SuggestedRem	edy			
Kramer, Glen	Broadcom				oriate reference	9		
Comment Type T	Comment Status A		TBD	Response		Response Status <b>C</b>		
TBD and missing refere	ence			•	N PRINCIPLE.			
SuggestedRemedy	erence to 142 4 3 1			See commo	ent #269			
replace with a cross-ref								

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

C/ 144 SC 144.2.1.2 Page 78 of 103 9/17/2019 11:11:44 AM

Approved Responses	IEEE P	802.3ca D2.0	25/50G-EPU	IN TASK	Force Initial W	vorking Gro	oup ballot comi	nems			
C/ 144 SC 144.2.1.2	P187	L1	# 6		C/ 144	SC 144.2.1.	.2	P <b>187</b>	L1	# 107	
Hajduczenia, Marek	Charter Comm	nunications			Anslow, Pete	e	Ci	ena			
Comment Type TR	Comment Status A			TBD	Comment Ty	vpe TR	Comment Stat	tus <b>A</b>			TBD
Missing reference to Cla	use 142						ause 142 needed}"		ptable content f	for a draft that is	
SuggestedRemedy							tandards Associatio	on ballot.			
I do not see any stateme	ent which could be reference	d to. Strike the v	whole sentence?		SuggestedR	•			h		
Response	Response Status C				•	"{IBD referen	nce to Clause 142 n		h a suitable refe	erence.	
ACCEPT IN PRINCIPLE					Response		Response Stat	us <b>C</b>			
See comment #269					ACCEPT	T IN PRINCIP	'LE.				
	D407	1.4	# 040		See com	nment #269					
C/ 144 SC 144.2.1.2	P187	L1	# 342		C/ 144	SC 144.2.1.	.2	P189	L1	# 298	
Laubach, Mark Comment Type E	Broadcom Comment Status A			TBD	Wienckowsk	ki, Natalie	Ge	eneral Moto	rs		
	t to cross reference to the a	opropriate Claus	e 142 subclause		Comment Ty	vpe TR	Comment Sta	tus A			TBD
SuggestedRemedy					There is	a red highligh	hted TBD in the doo	cument.			
Make it so.					SuggestedR	emedy					
Response	Response Status <b>C</b>						nce to Clause 142				
ACCEPT IN PRINCIPLE						propriate subc	lause in Clause 14				
					Response		Response Stat	us <b>C</b>			
See comment #269					ACCEPT	T IN PRINCIP	LE.				
C/ 144 SC 144.2.1.2	P187	L1	# 390		See com	nment #269					
Dawe, Piers	Mellanox				C/ 144	SC 144.2.1.	.3	P <b>187</b>	L1	# 444	
Comment Type E	Comment Status A			TBD	Powell, Willia	am	No	okia			
Missing cross-reference					Comment Ty	vpe TR	Comment Sta	tus <b>A</b>			TBD
SuggestedRemedy					Current t "For acc		ive clock, see {TBD	reference	to Clause 142 n	needed}."	
Response	Response Status <b>C</b>				SuggestedR	emedy					
ACCEPT IN PRINCIPLE					Change For accu		ve clock, see 142.4	.3.1.			
See comment #269					Response		Response Stat	us <b>C</b>			
					ACCEPT	T IN PRINCIP					

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

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0		D407	1.0	# [aa.	0	00			D 4 9 9	101	11 225	
C/ 144 SC 144	.2.1.3	P187	L <b>9</b>	# 201	C/ 144		144.3.1		P189	L <b>34</b>	# 203	
Remein, Duane			hnologies, Inc.		Remein, D					chnologies, Inc.		
Comment Type E		nent Status A		bucket	Comment		E	Comment				bucket
What is a PLID?	The mnemonic	c has not yet been ir	troduced.		"To m wrong		pose of the	MPCP" or n	ot "To main pur	pose of the MPCP	" Either way "T	o" is
SuggestedRemedy					Suggested							
Change "PLID" to		er ID (PLID)" ical Layer ID (PLID)	" to "PI ID"		Chanc		ly					
Response	• •	nse Status <b>C</b>			"To m	ain purp	pose of the					
ACCEPT.	Respor				"The r	nain pu	rpose of th	e MPCP"				
ACCEPT.					Response			Response	Status C			
C/ 144 SC 144	.2.1.3	P187	L <b>35</b>	# 202	ACCE	PT.						
Remein, Duane		Futurewei Teo	hnologies, Inc.		C/ 144	SC	144.3.1.1		P191	L <b>33</b>	# 343	
Comment Type El	R Comm	nent Status A			Laubach,	Mark			Broadcom			
	T able 31A-1 sh	hould not be forest g	reen but rather a	live link here and at	Comment		Е	Comment	Status A			bucket
line 40.							_			t the end of the se	entence.	Duomot
SuggestedRemedy					Suggested							
per comment					Make		<i>ly</i>					
Response	Respor	nse Status C						-	<b>.</b>			
ACCEPT.					Response ACCE			Response	Status C			
C/ 144 SC 144	.2.1.5	P188	L <b>48</b>	# 315	. <u></u>							
Lynskey, Eric		Broadcom			C/ 144	SC	144.3.1.1		P <b>192</b>	L <b>29</b>	# 39	
Comment Type <b>T</b>	Comm	nent Status A			Hajduczer	nia, Mar	rek		Charter Comn	nunications		
In Figure 144-5, it shows the first pa			sed to MCII is the	DA. In 144.1.4.2, it	Comment "can"		ER nd not inten	Comment ided per Styl			can	-vs-may
SuggestedRemedy					Suggested	dRemed	dy					
Remove DA from	the argument li	list.			Chang	ge "This	condition	can be indep	endently detect	ed" to "This condit	tion may be	
Response	Respor	nse Status C			indepe	endently	y detected"		-		-	
ACCEPT.					Response REJE			Response	Status <b>C</b>			
								s capable") is Ily wrong her		intended. "May" (i.	e., "is allowed"	or "is

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							00.4					
C/ 144	SC 144.3.1.1	P <b>192</b>	L <b>34</b>	# 204		C/ 144	SC 1	44.3.2		P <b>193</b>	L <b>5</b>	# 344
Remein, Du	Jane	Futurewei Teo	hnologies, Inc.			Laubach,	Mark			Broadcom		
Comment T	ype E	Comment Status A			bucket	Comment	Туре	Е	Comment S	Status A		buck
MLID ha	as not been introc	duced.							eniated (bulle	ted) have an e	nding period. Sa	ame for list beginning
SuggestedF	Remedy					on pa	ge 193, l	line 52.				
		agement Link ID (MLID)"				Suggested		•				
On pg 1	195 line 3 change	"Management Link ID (MLI	D) carries" to "The	e MLID carries"		Editor	to choo	se how to	have consiste	ent (or appropr	riate) line endings	6
Response		Response Status C				Response	9		Response S	Status C		
ACCEP	ΥТ.					ACCE	PT IN P	RINCIPL	E.			
C/ 144	SC 144.3.1.1	P <b>192</b>	L <b>37</b>	# 205		Remo	ove "." at	the end c	of the last sent	ence.		
Remein, Du	Jane	Futurewei Tec	hnologies, Inc.			C/ 144	SC 1	44.3.2		P <b>193</b>	L12	# 207
Comment T	ype <b>T</b>	Comment Status A				Remein, I	Duane			Futurewei Te	chnologies, Inc.	
		ndant as a properly impleme ge timestamp difference is a		nestamp functior	n	Comment	Туре	Е	Comment S	Status A	-	buck
	-	ge uniestamp unierence is a	ccommodaled.			"as se	eparate ir	nstance" :	should be "a s	eparate instan	ice"	
SuggestedF	Remedy					Suggester	dRomod	v				
Change	· ·					Suggestee	unemeuj	,				
Change "This la		detected immediately after the	he registration is	expected and th	ie		omment	,				
"This la ONU sh	rge difference is on all not recognize	it as a timestamp drift error.	." to				omment	,	Response S	Status <b>C</b>		
"This la ONU sh "This la	rge difference is on nall not recognize rge difference that	it as a timestamp drift error at is detected immediately af	" to ter registration is	expected and the	he	per co Response	omment	, RINCIPLI	Response S E.	Status C		
"This la ONU sh "This la	rge difference is on nall not recognize rge difference that	it as a timestamp drift error at is detected immediately at it as a timestamp drift error	" to ter registration is	expected and the	he	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i>	rge difference is on nall not recognize rge difference that	it as a timestamp drift error. at is detected immediately at it as a timestamp drift error <i>Response Status</i> <b>C</b>	" to ter registration is	expected and the	he	per co Response ACCE	omment P PT IN P	RINCIPLI				
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE or rge difference is of hall not recognize rge difference that bes not recognize	it as a timestamp drift error. at is detected immediately at it as a timestamp drift error <i>Response Status</i> <b>C</b>	" to iter registration is (see ProcessTim he registration is " to iter registration is	expected and th estamp 144.2.1 expected and th	he 1.4)." he	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE or rge difference is of hall not recognize rge difference that bes not recognize	it as a timestamp drift error. at is detected immediately at it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately at it as a timestamp drift error	" to iter registration is (see ProcessTim he registration is " to iter registration is	expected and th estamp 144.2.1 expected and th	he 1.4)." he	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE or: rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + chi SC 144.3.1.2	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8	" to iter registration is (see ProcessTim he registration is " to ter registration is (see ProcessTim	expected and th nestamp 144.2.1 expected and th expected and th nestamp in 144.2	he 1.4)." he	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike <i>Cl</i> <b>144</b>	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE or rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + cha SC 144.3.1.2 Jane	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8	" to ter registration is (see ProcessTim he registration is " to ter registration is (see ProcessTim L44	expected and th nestamp 144.2.1 expected and th expected and th nestamp in 144.2	he 1.4)." he	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike <i>Cl</i> 144 Remein, Du <i>Comment T</i>	rge difference is of hall not recognize rge difference that bes not recognize rT IN PRINCIPLE e: rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + cha SC 144.3.1.2 Jane Type E	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8 <i>P</i> 192 Futurewei Tec <i>Comment Status</i> <b>A</b> of the word allowances in th	" to ter registration is (see ProcessTim ter registration is (see ProcessTim <i>L</i> 44 chnologies, Inc.	expected and the expect	he 1.4)." ne 2.1.4)." bucket	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike <i>Cl</i> 144 Remein, Du <i>Comment T</i>	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE e: rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + cha SC 144.3.1.2 uane the only instance erent terms for th	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8 <i>P</i> 192 Futurewei Tec <i>Comment Status</i> <b>A</b> of the word allowances in th	" to ter registration is (see ProcessTim ter registration is (see ProcessTim <i>L</i> 44 chnologies, Inc.	expected and the expect	he 1.4)." ne 2.1.4)." bucket	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike <i>Cl</i> 144 Remein, Du <i>Comment T</i> This is t use diffe	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE e: rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + cha SC 144.3.1.2 uane the only instance erent terms for th	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8 <i>P</i> 192 Futurewei Tec <i>Comment Status</i> <b>A</b> of the word allowances in th	" to ter registration is (see ProcessTim ter registration is (see ProcessTim <i>L</i> 44 chnologies, Inc.	expected and the expect	he 1.4)." ne 2.1.4)." bucket	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			
"This lai ONU sh "This lai ONU do <i>Response</i> ACCEP Change "This lai ONU sh "This lai ONU do + strike <i>Cl</i> 144 Remein, Du <i>Comment T</i> This is t use diffe	rge difference is of hall not recognize rge difference that bes not recognize PT IN PRINCIPLE are rge difference is of hall not recognize rge difference that bes not recognize MP8b PICs + cha SC 144.3.1.2 Jane Type E the only instance erent terms for th Remedy	it as a timestamp drift error. at is detected immediately af it as a timestamp drift error <i>Response Status</i> <b>C</b> detected immediately after th it as a timestamp drift error at is detected immediately af it as a timestamp drift error ange MP8a to MP8 <i>P</i> 192 Futurewei Tec <i>Comment Status</i> <b>A</b> of the word allowances in th	" to ter registration is (see ProcessTim ter registration is (see ProcessTim <i>L</i> 44 chnologies, Inc.	expected and the expect	he 1.4)." ne 2.1.4)." bucket	per co Response ACCE	omment P PT IN P	RINCIPLI	E.			

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

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C/ 144 SC 144.3.4.1	P194	L <b>46</b>	# 208	C/ 144	SC 1	144.3.5	P19	; L4	4	# 209
Remein, Duane	Futurewei Te	chnologies, Inc.		Remein, I	Duane		Future	vei Technologi	es, Inc.	
Comment Type T	Comment Status A			Comment	Туре	TR	Comment Status	A		
Are these "TDM-based means of the second sec	2	Js" something othe	r than GATES?	For ex	ample r		uirements between Ta I ONUs accepting BCA			
SuggestedRemedy					10					
Change: "such as TDM-based medium access by the ONI "such as GATE messages"	Js" to			"a reg	196 line istered (	12 chan ONU shal	ge: Il accept all envelopes' epts all envelopes"	to		
Response R ACCEPT IN PRINCIPLE.	esponse Status C			Chang	ge Table	144-1 as	s shown in remein_3ca	_1_0719.pdf		
				Updat	e PICS a	according	gly.			
Comment type changed to				Response	)		Response Status	;		
"TDM-based medium acces example, of flows. PLID ca			ration", not an	ACCE	PT IN P	RINCIPL	.E.			
Rephrase the sentence as to control critical Nx25G-EF ONU's access to PON mec	ON operations, such as	ayer ID (PLID) carr ONU registrations	ies messages used and arbitration of	http:// reaso	www.iee ns for ch	anges in	/3/ca/public/meeting_a			
				new P	PICS 144	l.5.4.2 pe	are made, update PICS er /3/ca/public/meeting_a	- C		
							ed by management" to contributions.	assigned to th	nis ONU b <u>i</u>	y management" after
				C/ 144	SC 1	144.3.5	P196	6 L1	4	# 345
				Laubach,	Mark		Broado	om		-
				<i>Comment</i> First li		E ends in a	Comment Status I		unctuatior	bucket
				Suggestee	dRemed	У	o have consistent (or a			
				Response ACCE		RINCIPL	Response Status ( E.	;		
				Remo	ve ";"					

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7 144 SC 144.3.6	P196	L <b>27</b>	# 210	C/ 144	SC 144.3.6.1	P <b>197</b>	L <b>28</b>	# 41
Remein, Duane	Futurewei Te	chnologies, Inc.		Hajduczer	iia, Marek	Charter C	ommunications	
Comment Type T	Comment Status A	-		Comment	Type ER	Comment Status R		can-vs-ma
There are several disa	greements between the text a	nd Figure 144-11.		"can" u	used and not inte	nded per Style Guide		
The same issues exist	s on pg 232 / Fig 144-30. and	in Cl 144.4.3 pg 2	232 / Fig 144-30	Suggested	lRemedy			
SuggestedRemedy		10	0		e "Up to seven e ions may be carr	nvelope allocations can l ied"	be carried" to "Up to	seven envelope
In text	In Figure			Response	,	Response Status <b>C</b>		
DestinationAddress SourceAddress OperandList	Destination Address Source Address Operand List			, REJE(	CT.	•		
Change Figures to agr	ee with the text (assuming the	ese are considered	d variables, otherwise		(i.e., "is able" or " ted") is semantic	is capable") is correct an ally wrong here	d is intended. "May"	(i.e., "is allowed" or "is
it might be easier to ch Response				C/ 144	SC 144.3.6.1	P197	L <b>48</b>	# 211
ACCEPT.	Response Status C			Remein, D	luane	Futurewe	Technologies, Inc.	
ACCELLT.				Comment	Type <b>TR</b>	Comment Status A		
% 144 SC 144.3.6	P <b>196</b>	L <b>35</b>	# 40	We se	em to have lost t	he definition of StartTime		
lajduczenia, Marek	Charter Com	nunications		Suggested	Remedy			
Comment Type ER "can" used and not inte	Comment Status A ended per Style Guide		can-vs-may	Add af "— Sta	ter ChannelMap artTime:			
SuggestedRemedy						eger value represents th e units of EQT. The start		
	Is originating at the OLT, this at the OLT, this may be the a		ss of" to "For	to corr Response	elate the start of	the grant." Response Status <b>C</b>	·	
Response	Response Status C				PT IN PRINCIPL			
ACCEPT.					_			
X 144 SC 144.3.6.1	P197	L1	# 346	Per co	mment, but Start	Time should be in italics	No comma after Lo	ocalTime.
	-	<i>L</i> I	# 340					
aubach, Mark	Broadcom		huslast					
	Comment Status A rom before this line to after th information at the bottom of t		<i>bucket</i> preceeding page					
SuggestedRemedy		lo pago.						
Editor to choose.								
	Response Status <b>C</b>							
ACCEPT IN PRINCIPI	-E.							
Maria dha a sao hasali (	rom before this line to after th	ia naraaranh						

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

C/ 144 SC 144.3.6.1 Page 83 of 103 9/17/2019 11:11:44 AM

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C/ 144 SC 14	4.3.6.1	P <b>198</b>	L <b>20</b>	# 212	C/ 144	SC 144.3.6.2	P <b>199</b>	L <b>47</b>	# 213
Remein, Duane		Futurewei Te	chnologies, Inc.		Remein, I	Duane	Futurewei T	echnologies, Inc.	
Comment Type	r Comm	nent Status A			Comment	Type TR	Comment Status R		
we use "The val		field signifies an er		y" on pg 200 line 10 le we have a good	definit 197/3	ions 6	timestamp field is repeated	I 7x. We don't do t	this for other variable
SuggestedRemedy					199/4 201/1				
Change both loo an empty"	ations to "When	this field is set to the	ne value of ESC_	PLID then it signifies	203/4 203/4 204/4				
Response	Respor	nse Status <b>C</b>			206/4				
ACCEPT IN PR	INCIPLE.				209/1				
Ohan na hath la		this field is set to th		LID (and Table 444	Simila	ar situation exist for	or other fields.		
1) then it signifie		this field is set to tr	he value of ESC_	LLID (see Table 144-	Suggeste	dRemedy			
	4.3.6.2	P199	L <b>40</b>	# 42			n for all but the first instance		
				# 42			s is generic and does not m e first definition instance "S		
Hajduczenia, Marek		Charter Comr	munications		acios			ee 144.5.0.1 (with	a live link of course).
		nent Status R		can-vs-may			lowing field def's (pg/line fie	eldname xRef):	
"can" used and	not intended per	Style Guide				LLID "See 144.3 ChannelMap "Se	-		
SuggestedRemedy						8 SP1Length "Se			
Change "Up to s reported by a si		be reported by a si	ngle" to "Up to se	ven LLIDs may be	207/4	2 SP2Length "Se 6 SP3Length "Se	e 144.3.6.4"		
Response	Respor	nse Status <b>C</b>			Response	,	Response Status C		
REJECT.					REJE	CT.			
	ole" or "is capable mantically wrong		intended. "May"	i.e., "is allowed" or "is	Comn	nent type change	d to "T"		
. ,	,				- Defii - Defii	nitions of timestar nitions of LLID are	IMap are different for GATE mp should be corrected and e different for GATE and RE igth are different in DISCO\	d will therefore be of EPORT MPCPDUs	different.
							are not the same of the of		

Timestamps in GATEs are not the same as the content of MPCP Local time counter. Each timestamp is pre-compensated by the RTT value of the destination ONU.

#### **Approved Responses** IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments C/ 144 SC 144.3.6.2 P200 L2 # 214 C/ 144 SC 144.3.6.3 P201 L31 # 216 Remein, Duane Futurewei Technologies, Inc. Remein, Duane Futurewei Technologies, Inc. Comment Type Comment Type т Comment Status D TR Comment Status A We should make it clear that GLIDs are not included in the NonEmptyQueues count. PendingEnvelopes is an 8-bit value in the text but a 16 bit field in Fig 144-14 whereas EchoPendingEnvelopes is only 8-bits in both text and fig 144-15 (pg 203/204), SuggestedRemedv At the very lease these should agree. After "The number of LLIDs" add " (PLID, MLID, and ULIDs)" Should we consider increasing the maximum size of PendingEnvelopes? This seemed like a reasonable size 10 years ago for pending grants but maybe not now. Proposed Response Response Status Z SuggestedRemedy REJECT. Increase the size of these to a 10 bits. (4 x larger) Likewise increase size of EchoPendingEnvelopes on pg 203 line 33 and in Figure 144-15 This comment was WITHDRAWN by the commenter. (adjust Pad to 27 also). Comment type changed to "T" Response Response Status C ACCEPT IN PRINCIPLE. C/ 144 L6 # 215 SC 144.3.6.3 P201 Remein. Duane Futurewei Technologies. Inc. Change "This is an unsigned 8-bit value signifying the maximum number of envelope Comment Status A allocations" to "This is an unsigned 16-bit value signifying the maximum number of Comment Type Ε bucket envelope allocations" The variable name Timestamp should not cross the line SuggestedRemedy Change "This is an unsigned 8-bit value holding the number of envelope descriptors" to "This is an unsigned 16-bit value holding the number of envelope descriptors" per comment Response Response Status C In Figure 144–15, change size of EchoPendingEnvelopes from 1 to 2, and decrease pad from 28 to 27. ACCEPT. C/ 144 SC 144.3.6.3 P202 L22 # 458 SC 144.3.6.3 C/ 144 P201 L22 # 347 Nicholl, Shawn Xilinx Laubach, Mark Broadcom Comment Type Е Comment Status A Comment Type Ε Comment Status A bucket In "Figure 144-14 - REGISTER REQ MPCPDU" unexpected use of hyphen. Contrast with In tables in this subclause, there should be some consistency on whether to use a period at "Figure 103-26 - REGISTER REQ MPCPDU" in existing 802.3-2018 which shows the end of an item in the Comment column. For example, in some cases "Ignored on "Length/Type = 0x8808" and "Opcode = 0x0004". There are other figures in the document reception" has an ending period, in other tables, it does not. Suggest being consistent with unexpected hyphen (eq. Figure 144-30, 144-31, 144-32). across this subclause for those table Comments that read like a statement. SuggestedRemedy SuggestedRemedy Remove the hyphen from the figures. Editor to choose how to have consistent (or appropriate) line endings

Response

ACCEPT IN PRINCIPLE.

See comment #488.

Response

ACCEPT IN PRINCIPLE.

Remove periods within tables when a non-complete sentence is used.

Response Status C

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

C/ 144 SC 144.3.6.3

Response Status C

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C/ 144	SC 144.3.6.4	P <b>202</b>	L <b>49</b>	# 217	C/ 144 SC 144.3	6.5 P204	L <b>39</b>	# 108
Remein, Du	uane	Futurewei Tec	hnologies, Inc.		Anslow, Pete	Ciena		
Comment 7	Гуре Е	Comment Status A		bucket	Comment Type E	Comment Status A		bucke
		' the same as "Destination Ac	Idress" and "Dest	inationAddress"?		uld be a cross-reference. 144-16" on page 208, line 52		
Suggestedl replace	Remedy with "Destinatio	nAddress"			SuggestedRemedy			
Response		Response Status <b>C</b>			Change "Figure 144	-14" and "Figure 144-16" on pa	age 208, line 52 to	be cross-references.
ACCEF	РТ.				Response ACCEPT.	Response Status C		
C/ 144	SC 144.3.6.4	P <b>203</b>	L11	# 218	C/ 144 SC 144.3	6.6 <i>P</i> 206	L17	# 220
Remein, Di	uane	Futurewei Tec	hnologies, Inc.					# 220
Comment 1	Гуре Е	Comment Status A		bucket	Remein, Duane	Comment Status A	echnologies, Inc.	
PLID h	as already been	introduced.			Comment Type T		LessIT: we wet les	
Suggestedl	Remedy				better if we were co	n assigning timestamp) we use nsistent.	Local I ime not loc	cal clock. It would be
Change					SuggestedRemedy			
"physic	al layer identifier	r (PLID, see 144.3.4.1)" to			SuggestedRemedy Change "the local c	lock" to "LocalTime" (in italics)		
"physic "PLID(					Change "the local c	lock" to "LocalTime" (in italics) Response Status		
"physic	al layer identifier see 144.3.4.1)"	r (PLID, see 144.3.4.1)" to Response Status <b>C</b>			,	lock" to "LocalTime" (in italics) <i>Response Status</i> <b>C</b>		
"physic "PLID ( Response ACCEF	al layer identifier see 144.3.4.1)"	Response Status C	L14	# 219	Change "the local c Response	Response Status C	L40	# [43
"physic "PLID ( Response ACCEF	al layer identifier see 144.3.4.1)" PT. SC 144.3.6.4	Response Status C	L14 hnologies, Inc.	# 219	Change "the local c Response ACCEPT.	Response Status         C           6.6         P206	L40	# 43
"physic "PLID ( Response	al layer identifier (see 144.3.4.1)" PT. SC 144.3.6.4 uane	Response Status C		# 219 bucket	Change "the local c Response ACCEPT. Cl 144 SC 144.3.	Response Status         C           6.6         P206		# [ <u>43</u> can-vs-ma
"physic "PLID ( Response ACCEF C/ <b>144</b> Remein, Du Comment 7	al layer identifier (see 144.3.4.1)" PT. SC 144.3.6.4 uane	Response Status <b>C</b> P <b>203</b> Futurewei Tec Comment Status <b>A</b>			Change "the local c Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type ER	Response Status C 6.6 P206 Charter Con		
"physic "PLID ( Response ACCEF C/ <b>144</b> Remein, Du Comment 7	al layer identifier (see 144.3.4.1)" PT. SC 144.3.6.4 uane Type E has already been	Response Status <b>C</b> P <b>203</b> Futurewei Tec Comment Status <b>A</b>			Change "the local c Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type ER	Response Status C 6.6 P206 Charter Con Comment Status A		
"physic "PLID ( Response Cl 144 Remein, Du Comment 1 MLID h Suggested/ Change "manag	al layer identifier (see 144.3.4.1)" PT. SC 144.3.6.4 uane Type E las already been Remedy a: gement link ident	Response Status C P203 Futurewei Tec Comment Status A introduced.	hnologies, Inc.		Change "the local c <i>Response</i> ACCEPT. <i>Cl</i> 144 SC 144.3. Hajduczenia, Marek <i>Comment Type</i> ER "can" used and not <i>SuggestedRemedy</i> In table 144-7, char	Response Status C 6.6 P206 Charter Con Comment Status A	nmunications receive" to "OLT is	can-vs-ma
"physic "PLID ( Response Cl 144 Remein, Du Comment 1 MLID h Suggested/ Change "manag	al layer identifier see 144.3.4.1)" PT. SC 144.3.6.4 uane Type E las already been Remedy e:	Response Status C P203 Futurewei Tec Comment Status A introduced.	hnologies, Inc.		Change "the local c <i>Response</i> ACCEPT. <i>Cl</i> 144 SC 144.3. Hajduczenia, Marek <i>Comment Type</i> ER "can" used and not <i>SuggestedRemedy</i> In table 144-7, char	Response Status C 6.6 P206 Charter Con Comment Status A intended per Style Guide ge all instance of "OLT cannot	nmunications receive" to "OLT is	can-vs-ma

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144 SC 144.3.6.6 P207	L19	# 221	C/ 144 SC 144.	3.6.7	P <b>208</b>	L <b>42</b>	# 222	
emein, Duane Futurewei T	Fechnologies, Inc.		Remein, Duane	F	uturewei Tech	nologies, Inc.		
Improper left margin.         Comment Status D				<i>Comment Sta</i> nisleading "Generally he LLID equal to DIS	, the SYNC_F			
iggestedRemedy per comment			case but does des	cribe a required case dicts the "Generally" (	for unregister			
oposed Response Response Status Z			SuggestedRemedy					
REJECT. This comment was WITHDRAWN by the commer	nter.		DISC_PLID (see 1	nent as follows: ERN MPCPDUs are 44.3.5) to allow unreg				I
This is a continuation of text defining DiscoveryInf	o field.		pattern." <i>Response</i>	Response Sta				
144 SC 144.3.6.6 P207	L <b>20</b>	# 325	ACCEPT IN PRIN					
nskey, Eric Broadcom	20	π 323		-				
omment Type T Comment Status A			Change the staten "As part of the Dis	ient as follows: covery Process, the S	SYNC PATTE	RN MPCPDUs a	are transmitted in	
The draft makes it very clear how the ONU should speeds during a discovery attempt. There is no d	escription of how the	e ONU should handle		LLID equal to DISC_				
a case when multiple coexistence types are adver	tised. It can be left	to the ONU to decide.	C/ 144 SC 144.	3.6.7	P <b>208</b>	L <b>52</b>	# 348	
ggestedRemedy			Laubach, Mark	В	roadcom			
Remove the second two sentences of the paragra client may allow a concurrent registration of ONUs and 6 to 1. The processing of DiscoveryInfo flags	s with different rates	by setting both bits 5	Comment Type E "Figure 144-16" ne	<i>Comment Sta</i> eds to be a proper cr			Ł	bucket
dual-rate systems is further specified in 144.3.9. concurrent registration of ONUs with different coe.			SuggestedRemedy					
and 15 to 1. For ONUs that support both coexiste		0	Make it so.					
attempt to register is implementation dependent.			Response	Response Sta	itus <b>C</b>			
esponse Response Status C			ACCEPT.					
ACCEPT IN PRINCIPLE.			C/ 144 SC 144.	2 7	P210	L <b>34</b>	# 299	
Minor editorial tweaks			Wienckowski, Natalie		General Motors		# 299	
Remove the second two sentences of the paragra	unh and replace with		Comment Type E	Comment Sta		>	ŀ	bucket
client may allow a concurrent registration of ONUs	s with different rates by the ONU and the	by setting both bits 5 ONU behavior in		ce to a place in this do		s red text and do		JUONOT
and 6 to 1. The processing of DiscoveryInfo flags	he OLT MPMC clie		SuggestedRemedy					
dual-rate systems is further specified in 144.3.9. T	xistence options by			- Crease Defenses				
dual-rate systems is further specified in 144.3.9. T concurrent registration of ONUs with different coer and 15 to 1. For ONUs that support both coexister		5	Change 141.1.3 to	a Cross-Reference.				
dual-rate systems is further specified in 144.3.9. T concurrent registration of ONUs with different coer		5	Change 141.1.3 to Response	Response Sta	tus C			
dual-rate systems is further specified in 144.3.9. T concurrent registration of ONUs with different coel and 15 to 1. For ONUs that support both coexister		5		Response Sta	tus C			
dual-rate systems is further specified in 144.3.9. T concurrent registration of ONUs with different coel and 15 to 1. For ONUs that support both coexister		5	Response	Response Sta CIPLE.	itus C			

SORT ORDER: Clause, Subclause, page, line

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C/ 144 SC	144.3.7	P <b>210</b>	L <b>34</b>	# 7	C/ 144 SC 144.3.7	P <b>210</b>	L34	# 274
lajduczenia, Mar	rek	Charter Comm	nunications		Marris, Arthur	Cadence De	sign Systems	
Comment Type Reference in	_	Comment Status A		bucket	Comment Type E Com Fix cross reference (see 143.1.	ment Status A 3)		bucke
SuggestedRemed Change to 14	•	ke it live			SuggestedRemedy Fix cross reference (see 143.1.	3)		
Response ACCEPT.	R	Response Status C			Response Respons	onse Status C		
C/ 144 SC	144.3.7	P <b>210</b>	L <b>34</b>	# 223	See comment #223			
Remein, Duane		Futurewei Tec	chnologies, Inc.		C/ 144 SC 144.3.7	P <b>210</b>	L <b>38</b>	# 224
omment Type	_	Comment Status A		bucket	Remein, Duane	Futurewei Te	chnologies, Inc.	
Why is this a	ref to 143.1.3	and in red font?			Comment Type T Com	ment Status A		
uggestedRemed make this a li	<i>dy</i> ive link to 142.	.1.3			We should be clear that the Dis receive for the DISC_PLID.	scovery process is a	borted only if a SYN	IC_PATTERN is
esponse	F	Response Status <b>C</b>			SuggestedRemedy			
ACCEPT.					Change: "If a SYNC_PATTERN MPCPD			
/ <b>144</b> SC	144.3.7	P <b>210</b>	L <b>34</b>	# 349	"If a SYNC_PATTERN MPCPD		SC_PLID is receive	d"
aubach, Mark		Broadcom			,	onse Status C		
omment Type	Е (	Comment Status A		bucket	ACCEPT IN PRINCIPLE.			
	3" into a prope	er cross reference or remo	ve the Red text.		Changes per comment.			
Turn "143.1.3	• •		ve the Red text.		Changes per comment. Also implement changes per http://www.ieee802.org/3/ca/pu	blic/meeting_archive	e/2019/07/kramer_3	ca_7_0719.pdf
Turn "143.1.3 uggestedRemed Make it so. esponse	dy		we the Red text.		Also implement changes per	blic/meeting_archive	e/2019/07/kramer_3	ica_7_0719.pdf # 8
Turn "143.1.3 uggestedRemed Make it so.	dy	er cross reference or remo	we the Red text.		Also implement changes per http://www.ieee802.org/3/ca/pu	-	L <b>46</b>	
Turn "143.1.3 uggestedRemed Make it so. esponse	dy	er cross reference or remo	we the Red text.		Also implement changes per http://www.ieee802.org/3/ca/pu C/ 144 SC 144.3.7 Hajduczenia, Marek	P210 Charter Com	L <b>46</b>	
Turn "143.1.3 uggestedRemed Make it so. Pesponse	dy	er cross reference or remo	we the Red text.		Also implement changes per http://www.ieee802.org/3/ca/pu C/ 144 SC 144.3.7 Hajduczenia, Marek Comment Type E Com	P210 Charter Com	L <b>46</b>	# 8

exceed the length of the discovery window."

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MPCPDUs sponse REJECT. "Can" (i.e., permitted"	e E us may <i>medy</i> REGISTER_F s may be reco , "is able" or " ') is semantic	Charte Comment Status REQ MPCPDUs can be eived by the OLT" Response Status is capable") is correct ally wrong here.	e received by	the OLT" to	
Can versu: ggestedRen Change "R MPCPDUs sponse REJECT. "Can" (i.e., permitted"	us may medy REGISTER_F s may be reco , "is able" or " ') is semantic	EQ MPCPDUs can be eived by the OLT" <i>Response Status</i> is capable") is correct	e received by		"REGISTER_REQ
ggestedRen Change "R MPCPDUs sponse REJECT. "Can" (i.e., permitted"	medy REGISTER_F s may be reco , "is able" or " ') is semantic	eived by the OLT" <i>Response Status</i> is capable") is correct	C		
Change "R MPCPDUs sponse REJECT. "Can" (i.e., permitted"	REGISTER_F s may be reco , "is able" or " ') is semantic	eived by the OLT" <i>Response Status</i> is capable") is correct	C		
MPCPDUs sponse REJECT. "Can" (i.e., permitted"	s may be rece , "is able" or " ') is semantic	eived by the OLT" <i>Response Status</i> is capable") is correct	C		
REJECT. "Can" (i.e., permitted"	) is semantic	is capable") is correct		ed. "May" (i.	e., "is allowed" or "is
"Can" (i.e., permitted"	) is semantic		and is intend	led. "May" (i.	e., "is allowed" or "is
permitted"	) is semantic		and is intend	ed. "May" (i.	e., "is allowed" or "is
<b>144</b> S					
	SC 144.3.7	P <b>21</b> <sup>-</sup>	I L	L3	# 44
ijduczenia, N	Marek	Charte	r Communica	ations	
mment Type	e ER	Comment Status	4		can-vs-ma
"can" used	d and not inte	nded per Style Guide			
ggestedRen	medy				
			an be receive	ed" to "valid	REGISTER_REQ
sponse		Response Status	C		
ACCEPT.					
g	"can" use gestedRe Change " MPCPDU ponse	"can" used and not inte gestedRemedy Change "valid REGIST MPCPDUs may be rece sponse	"can" used and not intended per Style Guide gestedRemedy Change "valid REGISTER_REQ MPCPDUs of MPCPDUs may be received" sponse Response Status	"can" used and not intended per Style Guide gestedRemedy Change "valid REGISTER_REQ MPCPDUs can be received" MPCPDUs may be received" sponse Response Status C	"can" used and not intended per Style Guide rgestedRemedy Change "valid REGISTER_REQ MPCPDUs can be received" to "valid MPCPDUs may be received" reponse Response Status C

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144 SC 144.3.7	P <b>211</b>	L <b>9</b>	# 226	C/ 144	SC 144.3.7	P <b>211</b>	L13	# 10
Remein, Duane	Futurewei Teo	chnologies, Inc.		Hajduczen	ia, Marek	Charter C	Communications	
Comment Type TR 0	Comment Status A			Comment	Type E	Comment Status A		bucket
It is not clear to me why we				Wrong	field names			
"Note that even though a co data rate in any transmission				Suggested	Remedy			
upstream and downstream While I agree that an ONU	channel is indicated in th should only attempt to re	e RegisterReques	Info field."			n Time and Laser Off Time fields." - make sure names		aserOnTime and
advertise it's capabilities true The description of the information		questinfe seems to	bogin with "Included	Response		Response Status C		
in the REGISTER_REQ MF would make a better para b	CPDU is the ONU's MA	C address and"		ACCE	PT.			
SuggestedRemedy	reak man mis misguided	note.		C/ 144	SC 144.3.7	P <b>211</b>	L <b>26</b>	# 45
Start a new para beginning	at line 3 "Included in the	REGISTER REO	MPCPDI Lis the	Hajduczen	ia, Marek	Charter C	Communications	
ONU's MAC address and				Comment	Type ER	Comment Status A		can-vs-may
Change:				"can" ເ	used and not in	tended per Style Guide		
"Note that even though a co	mpliant ONU is not proh	ibited from suppor	ing more than one	Suggested	Remedy			
data rate in any transmission upstream and downstream	n channel, it is expected channel is indicated in th	that a single supple RegisterReques	orted data rate for Info field." to			egistered and normal mes I message traffic may beg		in" to "the ONU is
"Note that even though a co data rate in any transmission a single rate as indicated in	n channel, it is expected	that an ONU only	attempt to register at	Response ACCE	PT.	Response Status C		
-	esponse Status <b>C</b>							
ACCEPT IN PRINCIPLE.				C/ 144	SC 144.3.7	P <b>211</b>	L <b>32</b>	# 46
				Hajduczen	ia, Marek	Charter C	Communications	
Change: "Note that even though a co	moliont ONILLis not prob	ibited from suppor	ing more than one	Comment	21	Comment Status A		can-vs-may
data rate in any transmissio				"can" ເ	used and not in	tended per Style Guide		
upstream and downstream				Suggested	Remedy			
to "Note that even though a co	ompliant ONU may be ca	pable of supporting	n more than one data	Chang	e "The ONU ca	in then reregister" to "The	ONU may then rereg	gister"
rate in any transmission ch	annel, it is expected that	an ONU only atten		Response		Response Status C		
single rate as indicated in the	ne RegisterRequestInfo f	ield bits 5 and 6."		ACCE	PT.			
Additionally, in the sentenc transmission capabilities in appropriately the flags in th	the upstream and downs e RegisterRequestInfo fie	stream channels by	v setting 144.3.6.3.", replace					

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C/ 144 SC 144.3.7	P <b>211</b>	L <b>33</b>	# 324	C/ 144 SC 144.3.7	.3 P213	L <b>51</b>	# 11
_ynskey, Eric	Broadcom			Hajduczenia, Marek	Charter Cor	nmunications	
Comment Type T	Comment Status A			Comment Type TR	Comment Status A		
Reregister and Deregiste	r are not valid flags.			Undefined variables /	constants? MissedReportCo	ount, MISSED_RE	PORT_LIMIT
SuggestedRemedy				SuggestedRemedy			
	R_MPCPDU may indicate a			Need to be added and	d defined		
MPCPDU contains the N	eregistering." In the next ser	ntence, change to	"REGISTER_REQ	Response	Response Status C		
Response	Response Status <b>C</b>			ACCEPT IN PRINCIP	PLE.		
ACCEPT.				MISSED REPORT L	IMIT		
				Type: Intege	r		
C/ 144 SC 144.3.7.1	P <b>213</b>	L <b>14</b>	# 351		This constant represents the deregister the given ONU.	number of misse	d REPORT MPCPDUs
aubach, Mark	Broadcom			Value: 8	deregister the given ONO.		
Comment Type E	Comment Status A		bucket	MissedReportCount			
The "u" in "us" is not a sy	mbol.				insigned integer		
SuggestedRemedy					able counts the number of m		
Should be the proper mu					CPDU is considered missing received any REPORT MPD		
Response	Response Status C			envelope. The Misse	dReportCount counter is incre	emented by one p	er each PLID envelope
ACCEPT.				REPORT MPCPDU is	ny REPORT MPCPDUs, rega s received from a given PLID	the value of Miss	ith of that envelope. If a sedReportCount is rese
C/ 144 SC 144.3.7.3	P <b>213</b>	L <b>38</b>	# 227	to zero.		,	
Remein, Duane	Futurewei Tec	hnologies, Inc.		C/ 144 SC 144.3.7	.3 P214	L <b>4</b>	# 317
Comment Type T	Comment Status A			Lynskey, Eric	Broadcom		
The description of ChSta	te does not sound like an in	teger.		Comment Type T	Comment Status A		
SuggestedRemedy					e ONU to send a register ac		
Change type to "8-bit Bo	olean array"				e ONU can only send a regis Once the REGISTERED sta		
Response	Response Status C				ons (1, 2, 4) are expected.	ale in Figure 144-2	i has been reached,
ACCEPT IN PRINCIPLE				SuggestedRemedy	· · · ·		
	t Boolean values"				Ack with MsgRegisterReq in	two places. Also	replace Deregister with
Change to "Array of eigh							
Change to "Array of eigh				Response	Response Status <b>C</b>		

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C/ 144 SC 144.3.7.3	P214	L <b>7</b>	# 323	C/ 144 SC 144.3			# 391
Lynskey, Eric	Broadcom			Dawe, Piers	Mellano		
Comment Type <b>T</b> Deregister is not a valid	Comment Status A			Comment Type T 10.3125 Gb/s	Comment Status	A	
SuggestedRemedy Change to NACK.				SuggestedRemedy 10.3125 GBd. Also	o 25.78125 Gb/s -> GBd		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status (	;	
C/ 144 SC 144.3.7.3	P <b>214</b>	L <b>9</b>	# 228	C/ 144 SC 144.3	8.7.3 P214	L <b>49</b>	# 300
Remein, Duane	Futurewei Tec	hnologies, Inc.		Wienckowski, Natalie	Genera	I Motors	
Comment Type T	Comment Status A			Comment Type E	Comment Status	)	
The description of Gran SuggestedRemedy	tEndTime does sound like ar	ı integer.			ing spaces in number that I of the 2014 IEEE-SA Style		to the right of the
Change type to "32-bit	unsigned integer"			SuggestedRemedy			
Response	Response Status <b>C</b>			Change: 25.78125	5		
ACCEPT.				To: 25.781 25	_		
				Proposed Response	Response Status	2	
C/ 144 SC 144.3.7.3	P <b>214</b>	L <b>36</b>	# 229	PROPOSED REJE	:C1.		
Remein, Duane	Futurewei Tec	chnologies, Inc.		This comment was	WITHDRAWN by the com	menter.	
Comment Type T The description of Max	Comment Status <b>A</b> Delay does sound like an inte	ner					
·		901.		C/ 144 SC 144.3	-		# 48
SuggestedRemedy Change type to "32-bit (	unsigned integer"			Hajduczenia, Marek		Communications	
				Comment Type ER		A	can-vs-may
Response ACCEPT.	Response Status C				intended per Style Guide		
ACCEPT.				SuggestedRemedy			
C/ 144 SC 144.3.7.3	P <b>214</b> Charter Comn	L <b>37</b>	# 47	Change "this varial values"	ble can take the following v	alues" to "this variable	e takes the following
Hajduczenia, Marek		Turncations		Response	Response Status	;	
Comment Type ER	Comment Status A nded per Style Guide		can-vs-may	ACCEPT.			
SuggestedRemedy		to "the meyimum	delay the ONLI may				
SuggestedRemedy	delay the ONU can apply to"						
SuggestedRemedy Change "the maximum	delay the ONU can apply to" Response Status C						

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

SC 144.3.7.3

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 144	SC 144.3.7.3	P <b>215</b>	L <b>21</b>	# 230	C/ 144	SC 144	.3.7.3	P <b>215</b>	L <b>53</b>	# 232
Remein, D	Duane	Futurewei Teo	hnologies, Inc.		Remein, D	uane		Futurewei Tech	nologies, Inc.	
Comment	Type TR	Comment Status R			Comment	Туре Т	(	Comment Status A		
		lowed disallows an ONU cap			The de	escription of	of SpSeq d	oes sound like an integer.		
		that is also capable of both 1 nat we haven't thought of that			Suggested	Remedy				
	are several solut			i benavior benenciai.	Chang	e type to "	32-bit unsi	gned integer"		
		covery Window for single rate that the OLT may lie to the 0		nobilition to forma	Response		R	esponse Status <b>C</b>		
	ration at 10G rate		DNU regarding ca	pabilities to force	ACCE	PT IN PRI	NCIPLE.			
Suggested	dRemedy				Chano	e type to "	2-bit unsig	ned integer"		
	d prefer option 1. ct any changes in	144.3.9 also			C/ 144	SC 144		P <b>216</b>	L12	# 352
Response	, 0	Response Status C			Laubach, I			Broadcom		
REJE					Comment		(	Comment Status A		bucket
		istic behavior, ONU is require	ed to register at th	e highest rate	Of the ending		ie a) to f) li	st, one ends in a period, th	ne rest do not. Use	e consistent lines
suppo		DLT and this ONU.			Suggested	lRemedy				
The O	LT doesn't lie to t	he ONU. It can choose what	capability to adve	rtize (see 144.3.9)	Editor	to choose	how to hav	ve consistent (or appropria	te) line endings	
25G re	eceive capability,	-capable ONUs to register at so option 2 is employed. This le ONUs in 802.3av.			Response ACCE	PT IN PRI		esponse Status C		
No ch	anges required.				Remo	ve "." at the	e end of bu	Illet items		
		Date	L <b>45</b>	# 004	C/ 144	SC 144	.3.7.5	P <b>216</b>	L <b>48</b>	# 233
C/ 144	SC 144.3.7.3	P215		# 231	Remein, D	luane		Futurewei Tech	nologies, Inc.	
Pomoin I	Duane		hnologies, Inc.		Comment	Туре Е	R (	Comment Status A		
-	Type T	Comment Status A			No var	iable nam	e MsgReg	siter is used. Maybe shoul	d be MsgRegister	?
Comment	e e e station e f De ef				Currenter	Pomodu				
Comment The de		Start does sound like an integ			Suggested	Remeuy				
Comment The de Suggested	dRemedy				00	mment				
Comment The de Suggested Chang	dRemedy ge type to "32-bit	unsigned integer"			00		R	esponse Status C		
Comment The de	dRemedy ge type to "32-bit				per co	mment	R	esponse Status C		

C/ 144 SC 144.3.7.5 Page 93 of 103 9/17/2019 11:11:45 AM

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C/ 144 SC 144.3	.7.8 P218	L <b>36</b>	# 234	C/ 144 SC 144.3.	7.8 P219	L <b>36</b>	# 353
Remein, Duane	Futurewei	Technologies, Inc.		Laubach, Mark	Broadcom		
Comment Type E	Comment Status A		bucket	Comment Type T	Comment Status R		
"Registered" should	d be in italics			In Figure 144-22, is is something technic	there a blank line in the middle cal missing?	e of the steps in C	OMMIT_DISC_ENV or
SuggestedRemedy				SuggestedRemedy			
per comment				Verify if something n	nissing, and if so fix it. If it is ir	ndeed a blank line	e consider removing.
Response	Response Status C			Response	Response Status <b>C</b>		
ACCEPT.				, REJECT.	•••••		
Two instances				The empty line empl	hasizes the fact of filling two se	eparate envelopes	S.
C/ 144 SC 144.3	.7.8 P219	L <b>9</b>	# 235	C/ 144 SC 144.3.	7.8 P219	L <b>49</b>	# 040
Remein, Duane	Futurewei <sup>-</sup>	Technologies, Inc.				L <b>49</b>	# 316
				Lynskey, Eric	Broadcom		
Comment Type TR	Comment Status A						
	Comment Status A exit criteria from WAIT_FOR_S	YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E	Comment Status A	zed.	bucket
In valid symbol in e		YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E	Comment Status A	zed.	bucket
In valid symbol in e SpSeq SuggestedRemedy		YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E In Figure 144-22, tim	Comment Status A nestampDrift should be capitali	ized.	bucket
In valid symbol in e SpSeq SuggestedRemedy	exit criteria from WAIT_FOR_S	YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E In Figure 144-22, tim SuggestedRemedy	Comment Status A nestampDrift should be capitali	ized.	bucket
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les	exit criteria from WAIT_FOR_S	YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan	Comment Status A nestampDrift should be capitali	ized.	bucket
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b>	YNC "msgSyndPatte	ern.Index >>?<<	Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response	Comment Status A nestampDrift should be capitali npDrift. Response Status C	ized.	bucket # 236
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT.	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal)	YNC "msgSyndPatte	ern.Index >>?<< # 12	Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT.	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220		
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT. Replace "?" with "!=	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219			Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. Cl 144 SC 144.3.4 Remein, Duane Comment Type E	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A	L3	
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT. Replace "?" with "!= Cl 144 SC 144.3	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219	L9		Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. Cl 144 SC 144.3.4 Remein, Duane	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A	L3	# 236
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT. Replace "?" with "!= Cl 144 SC 144.3 Hajduczenia, Marek	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219 Charter Co <i>Comment Status</i> <b>A</b>	L9		Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. Cl 144 SC 144.3.4 Remein, Duane Comment Type E	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A	L3	# 236
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT. Replace "?" with "!= C/ 144 SC 144.3 Hajduczenia, Marek Comment Type TR	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219 Charter Co <i>Comment Status</i> <b>A</b>	L9		Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. Cl 144 SC 144.3.4 Remein, Duane Comment Type E see 1.4.278 should b	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A	L3	# 236
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les Response ACCEPT. Replace "?" with "!= C/ 144 SC 144.3 Hajduczenia, Marek Comment Type TR Wrong symbol in lir	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219 Charter Co <i>Comment Status</i> <b>A</b> ne: "?"	L9		Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. Cl 144 SC 144.3.4 Remein, Duane Comment Type E see 1.4.278 should b SuggestedRemedy	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A	L3	# 236
In valid symbol in e SpSeq SuggestedRemedy Replace "?" with les ACCEPT. Replace "?" with "!= Cl 144 SC 144.3 Hajduczenia, Marek Comment Type TR Wrong symbol in lir SuggestedRemedy	exit criteria from WAIT_FOR_S ss than or equal to symbol <i>Response Status</i> <b>C</b> =" (not equal) .7.8 <i>P</i> 219 Charter Co <i>Comment Status</i> <b>A</b> ne: "?"	L9		Comment Type E In Figure 144-22, tim SuggestedRemedy Change to Timestan Response ACCEPT. C/ 144 SC 144.3.4 Remein, Duane Comment Type E see 1.4.278 should B SuggestedRemedy per comment	Comment Status A nestampDrift should be capitali npDrift. Response Status C 8 P220 Futurewei Te Comment Status A be a live link	L3	# 236

#### **Approved Responses** IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments C/ 144 SC 144.3.8 P220 L8 # 237 C/ 144 SC 144.3.8.1 P220 L47 # 302 Wienckowski, Natalie General Motors Remein, Duane Futurewei Technologies, Inc. Comment Type т Comment Status A Comment Type E Comment Status D It would be useful to the reader to refer back to Figure 144-3 & 144-4. Use a non-breaking space in number that have 4 or more digits to the left of the decimal per 13.3.2 of the 2014 IEEE-SA Style Manual, not a comma. SuggestedRemedy SugaestedRemedv At the end of the first para add: "The following description of the granting process makes use of the interfaces and functional blocks found in Figure 144-3 and Figure 144-4. Change: 19.531.250 To: 19 531 250 Response Response Status C Proposed Response Response Status Z ACCEPT. PROPOSED REJECT. Comment type changed to "T" This comment was WITHDRAWN by the commenter. C/ 144 SC 144.3.8.1 # 238 P220 L36 Remein, Duane Futurewei Technologies, Inc. C/ 144 SC 144.3.8.1 P220 L47 # 239 Comment Type T Comment Status A Remein, Duane Futurewei Technologies, Inc. The description of MPCP PROCESS DLY and GATE TIMEOUT does sound like an Comment Type TR Comment Status A integer. Assuming GATE\_TIMEOUT really is a constant as implied then 50 ms is not the default

value, it is the only allowed value.

Response Status C

SuggestedRemedy

ACCEPT.

Response

Strike ", default value"

#### SuggestedRemedy

Change type to "32-bit unsigned integer"

Response Response Status C

#### ACCEPT.

C/ 144 SC 144.3.8.1 P220

P**220** L**40** 

Wienckowski, Natalie General Motors

Comment Type E Comment Status D

Use a non-breaking space in number that have 4 or more digits to the left of the decimal per 13.3.2 of the 2014 IEEE-SA Style Manual, not a comma.

#### SuggestedRemedy

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

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

# 301

C/ 144 SC 144.3.8.1 Page 95 of 103 9/17/2019 11:11:45 AM

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C/ 144 SC 144.3.8.3	P <b>221</b>	L <b>4</b>	# 240	C/ 144 SC 14		P <b>222</b>	L <b>33</b>	# 242
Remein, Duane	Futurewei Tec	hnologies, Inc.		Remein, Duane		Futurewei Te	chnologies, Inc.	
Comment Type T	Comment Status A			Comment Type	TR Con	nment Status A		
This variable is stated a that represents"	as a Boolean array and it is co	onfusing to refer to	o it as "A Boolean	Given only one statement.	requirement m	aps to this clause the	ere should ideally	be only one shall
SuggestedRemedy				SuggestedRemedy				
Change: "A Boolean that represe "Each element in this Be	ents" to oolean array represents"			A separate insta		GATE Generation state te diagram shall be in		
Response	Response Status C			(PLID)." to "The OLT shall i	implement a se	eparate instance for e	ach registered O	NILL (PLID) of the
ACCEPT IN PRINCIPLE	Ξ.				on state diagra	m as shown in Figure		
Use this text:	man far an an state de 20 a de ser			Response		oonse Status <b>C</b>		
represents whether"	rray is associated with the res	spective MCRS cr	nannel and	ACCEPT IN PR				
Strike the last sentence	1			Change:				
C/ 144 SC 144.3.8.3	P <b>221</b>	L <b>22</b>	# 241	"The OLT shall i	implement the	GATE Generation sta	ate diagram as sh	own in Figure 144–2
						en alle anne an aite aite in the		a share share at ONUL
Remein. Duane	Futurewei Tec	hnologies. Inc.		A separate insta	ance of the stat	te diagram shali be in	npiemented per e	ach registered ONU
Remein, Duane	Futurewei Tec	hnologies, Inc.		A separate insta (PLID)."	ance of the stat	te diagram shali be in	npiementea per e	ach registered ONU
Comment Type T	Comment Status A	0	we should here also	(PLID)."	ance of the stat	të diagram shali be in	npiemented per e	ach registered UNU
Comment Type <b>T</b> In all other variable defin		0	we should here also.		ance of the stat	të diagram shali de in	npiementea per e	ach registered ONU
Comment Type <b>T</b> In all other variable defin SuggestedRemedy	Comment Status A	0	we should here also.	(PLID)." to "The OLT shall i	implement an i	instance of the GATE		-
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows:	Comment Status A nitions we give the size of the	0	we should here also.	(PLID)." to "The OLT shall i	implement an i	-		-
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th	Comment Status A nitions we give the size of the	e variable or field,	we should here also.	(PLID)." to "The OLT shall i	implement an i	instance of the GATE		-
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" ->	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length"	e variable or field,	we should here also.	(PLID)." to "The OLT shall i Figure 144–23, Update PICS	implement an i per each regis	instance of the GATE tered ONU (PLID)."	Generation state	diagram, as shown
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat.	e variable or field,	we should here also.	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14	implement an i	instance of the GATE tered ONU (PLID)." P223	Generation state	-
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length"	e variable or field,	we should here also.	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane	implement an i per each regis 14.3.8.8	instance of the GATE tered ONU (PLID)." <i>P</i> 223 Futurewei Te	Generation state	diagram, as shown
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat.	e variable or field,	we should here also.	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type	implement an i per each regis I4.3.8.8 TR Con	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A	Generation state	diagram, as shown
Comment Type <b>T</b> In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT.	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C	e variable or field, time"		(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type	implement an i per each regis I4.3.8.8 TR Con	instance of the GATE tered ONU (PLID)." <i>P</i> 223 Futurewei Te	Generation state	diagram, as shown
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. Cl 144 SC 144.3.8.6	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C	e variable or field,	we should here also. # 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type	implement an i per each regis I4.3.8.8 TR Con	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A	Generation state	diagram, as shown
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. C/ 144 SC 144.3.8.6 Kramer, Glen	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom	e variable or field, time"	# 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS <i>CI</i> 144 SC 14 Remein, Duane <i>Comment Type</i> There does not <i>SuggestedRemedy</i> Change to Msg0	implement an i per each regis I4.3.8.8 TR Con appear to be a	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown # [ <u>244</u>
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. Cl 144 SC 144.3.8.6	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom Comment Status A	e variable or field, time"		(PLID)." to "The OLT shall i Figure 144–23, Update PICS Cl 144 SC 14 Remein, Duane Comment Type There does not SuggestedRemedy Change to Msg0 144.3.6.1.	implement an i per each regis I4.3.8.8 TR Com appear to be a Gate.ChannelN	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A ny field defined as M Map (2x in this SD) as	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown # 2 <u>44</u>
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. C/ 144 SC 144.3.8.6 Kramer, Glen Comment Type E "An array 16-bit elemen	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom Comment Status A	e variable or field, time"	# 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type There does not SuggestedRemedy Change to Msg0 144.3.6.1. Response	implement an i per each regis I4.3.8.8 TR Com appear to be a Gate.ChannelN	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A ny field defined as M	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown # 2 <u>44</u>
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. Cl 144 SC 144.3.8.6 Kramer, Glen Comment Type E "An array 16-bit elemen SuggestedRemedy	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom Comment Status A ats" is missing "of"	e variable or field, time"	# 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS Cl 144 SC 14 Remein, Duane Comment Type There does not SuggestedRemedy Change to Msg0 144.3.6.1.	implement an i per each regis I4.3.8.8 TR Com appear to be a Gate.ChannelN	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A ny field defined as M Map (2x in this SD) as	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown # [ <u>244</u>
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. C/ 144 SC 144.3.8.6 Kramer, Glen Comment Type E "An array 16-bit elemen SuggestedRemedy Change to "An array of	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom Comment Status A ats" is missing "of" 16-bit elements"	e variable or field, time"	# 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type There does not SuggestedRemedy Change to Msg0 144.3.6.1. Response	implement an i per each regis I4.3.8.8 TR Com appear to be a Gate.ChannelN	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A ny field defined as M Map (2x in this SD) as	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown # [ <u>244</u>
Comment Type T In all other variable defin SuggestedRemedy Change ass follows: "LLID: LLID" -> "LLID: th StartTime: Start time" -> "Length: The length" -> observe proper italics for Response ACCEPT. C/ 144 SC 144.3.8.6 Kramer, Glen Comment Type E "An array 16-bit elemen SuggestedRemedy	Comment Status A nitions we give the size of the he 16-bit LLID" > "StartTime: the 32-bit start t "Length: the 22-bit length" ormat. Response Status C P222 Broadcom Comment Status A ats" is missing "of"	e variable or field, time"	# 305	(PLID)." to "The OLT shall i Figure 144–23, Update PICS C/ 144 SC 14 Remein, Duane Comment Type There does not SuggestedRemedy Change to Msg0 144.3.6.1. Response	implement an i per each regis I4.3.8.8 TR Com appear to be a Gate.ChannelN	instance of the GATE tered ONU (PLID)." P223 Futurewei Te nment Status A ny field defined as M Map (2x in this SD) as	<i>L</i> <b>40</b> <i>L</i> <b>40</b> chnologies, Inc. sgGate.ChMap	# diagram, as shown

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

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C/ 144 SC 144.3.	.8.8 P223	L <b>40</b>	# 243	C/ 144 SC 144.3.9.	1 P <b>227</b>	L <b>10</b>	# 245
Remein, Duane	Futurewei Teo	chnologies, Inc.		Remein, Duane	Futurewei Te	chnologies, Inc.	
Comment Type TR	Comment Status A			Comment Type E	Comment Status A		bucket
Ampersand as an o	operator is not included in our list	of conventions.		Allowing			
SuggestedRemedy				15G-EP and 50G-EP ON O			
Use "AND"					to cross the line is confu	ising.	
Response	Response Status C			SuggestedRemedy			
ACCEPT.				ensure "EPON" appea	ars on a single line		
C/ 144 SC 144.3.	.8.11 P226	L8	# 13	Response	Response Status C		
Hajduczenia, Marek	Charter Comr		" 10	ACCEPT.			
•		nunications					
Comment Type <b>TR</b> Undefined primitive:	Comment Status A :: MPRS_CTRL?						
SuggestedRemedy							
SuggestedRemedy Is MCRS_CTRL inte	ended?						
Is MCRS_CTRL inte	ended? Response Status <b>C</b>						
Is MCRS_CTRL inte							
Is MCRS_CTRL inte Response ACCEPT.	Response Status C	L6	# 14				
Response ACCEPT.	Response Status C		# 14				
Is MCRS_CTRL inte Response ACCEPT. Cl 144 SC 144.3.	Response Status         C           .9.1         P227		# 14 bucket				
Is MCRS_CTRL inte Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type E	Response Status C .9.1 P227 Charter Comr						
Is MCRS_CTRL inte Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type E Table 144–9 has ve	Response Status C .9.1 P227 Charter Comr Comment Status A						
Is MCRS_CTRL inte Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type E	Response Status C .9.1 P227 Charter Comr Comment Status A ery inconsistent line width						
Is MCRS_CTRL inte Response ACCEPT. Cl 144 SC 144.3. Hajduczenia, Marek Comment Type E Table 144–9 has ve SuggestedRemedy	Response Status C .9.1 P227 Charter Comr Comment Status A ery inconsistent line width						

C/ 144 SC 144.3.9.1 Page 97 of 103 9/17/2019 11:11:45 AM

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C/ 144 SC 14	14.4.2	P <b>229</b>	L <b>28</b>	# 246	C/ 144	SC 144.4.2		P <b>229</b>	L <b>44</b>	# 247	
emein, Duane		Futurewei Teo	chnologies, Inc.		Remein, D	uane	Fu	uturewei Te	chnologies, Inc.		
Shouldn't this be & 29)? This see be a few cases	e the "CCP Clie ems to be a cor	nment Status A ent" not the "MPMC C mmon error throughou Client is correct. Below	ut 144.4 however	there also appear to		arification to the d upon ONU res	Comment Sta statement "Any n set and re-registra	on-persiste	nt changes are		
quote. 229/35 local MP	PMC Client,				00	-	sentence "(i.e., the	channel re	verts to it's default	state)"	
229/37 OLT MP 229/46 local MP 230/17 MPMC 0	PMC Client,				Proposed REJE		Response Sta	tus <b>Z</b>			
230/34 MPMC 0 231/3 MPMC CI	lient initiates,				This c	omment was WI	THDRAWN by the	e commente	er.		
231/24 MPMC 0 231/37 MPMC 0	,	nitor,			C/ 144	SC 144.4.2		P <b>230</b>	L1	# 248	
231/39 MPMC (	Client may (this	instance may be OK	check carefully),		Remein, D	uane	F	uturewei Te	chnologies, Inc.		
231/41 notify the 231/44 the MPM 238/25 MPMC 0	MC Client at the	e ONU.			Comment Does	51	<i>Comment Sta</i> nge both US & DS		a bit onerous to me		bucket
ggestedRemedy					Suggested	Remedy					
		ng the four figures as Note that CCP Client				ng / disabling or	ne of downstream ne of the downstre				
		ng diagrams such as 1			Response		Response Stat	tus <b>C</b>			
sponse		oonse Status <b>C</b>			ACCE	PT.					
ACCEPT IN PR	RINCIPLE.				C/ 144	SC 144.4.2.1	1	P230	L <b>4</b>	# 249	
This will require	TF discussion	. Generally, a client in	cludes the name	of a sublayer of which	Remein, D				chnologies, Inc.	# 249	
it is a client ( we client of Multi-P	e also use MAC	Client and PMA Clier rol sublayer. Everywhe	nt). So, "MPMC ( are in text we use	Client" is correct for a	Comment		Comment Sta		onnoiogioo, nio		
never "MPCP C Client" and "CC	lient" or "CCP	Client". However, a fe e decide to reconcile t	w pictures label	he boxes "MPCP	What	prevents the OL		/ disabling t	he only DS channe	el an ONU has	
things:					Suggested	Remedy					
2) In Figures 14	4-3, -4, -10, -1 <sup>-</sup>	MPMC Client" with eit 1, -28, -29, replace "M h "MPMC Client (CCP	IPCP Client" with		it is the		bara "The OLT sha ng enabled channe		le a downstream c NT"	hannel at the ON	NU if
The Task Force	e decided to ao	with approach numbe	er 2.		Response		Response Stat	tus <b>C</b>			
	, accided to ge	mar approach name			REJE	CT.					
					standa make ONU i	rd. In general, w a mistake. Some n order to preser	ve should not limit etimes it may be n	device cap lecessary to DN. NMS u	CP), which is outsi abilities, because a disable all channe ser interface usual on.	an operator may els and brick the	
				T/technical E/editorial SE STATUS: O/open W		U/unsatisfied	Z/withdrawn	C/ 14 SC 14	4	Page 98 o 9/17/2019	

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

# IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

	SC 144.4.2.1	P <b>230</b>	L13	# 319	C/ 144	SC 144.4.2.5	P <b>231</b>	L <b>41</b>	# 320			
_ynskey, E	Eric	Broadcom			Lynskey, E	ric	Broadcom					
Comment	Туре Т	Comment Status A			Comment	Туре Т	Comment Status R					
		the definition and behavior o			Behavi	or of MPMC Clie	nt.					
		is quite a bit of text in 144.4.			Suggested	Remedy						
144.4.2.4 that seems to describe the behavior of the MPMC Client. Specifically, there is text that says when the OLT starts and stops granting the ONU. A lot of the text in these subclauses is duplicated and not necessary.						Remove all text in 144.4.2.5 beginning with line 41. Replace with: To notify the MPMC						
						Client at the OLT about a local channel state change, the MPMC Client at the ONU may send an unsolicited CC_RESPONSE CCPDU to the OLT, indicating the new state of all of						
Suggested	Remedy					n unsolicited CC_		OLI, indicating	the new state of all of			
		.2.1 starting with page 230 li			Response		Response Status C					
starting	g with page 230 lii	ne 32. Remove all text in 14 .2.4 starting with page 231 li	4.4.2.3 starting v	vith page 231 line 1.	REJEC	T						
		Response Status <b>C</b>	16 22.		ILUEC							
Response	PT IN PRINCIPLE				This te	xt is intended to I	pe informative only. There ar	e no requiremen	ts made.			
ACCL					C/ 144	SC 144.4.3	P <b>232</b>	L <b>7</b>	# 49			
Remov	ve "shall" stateme	ns from 144.4.2.3 and 144.4	2.1, and elimina	te associated PICS.	Hajduczen	ia, Marek	Charter Comr	nunications				
This te	ext is intended to b	be informative only. There are	no requiremen	ts made.	Comment	Type ER	Comment Status A		can-vs-ma			
			•		"can" ເ	ised and not inter	nded per Style Guide					
/ 144	SC 144.4.2.1	P230	L19	# 318	Suggested	Remedv						
_ynskey, E		Broadcom				-	originating at the OLT, this ca	an be the" to "Fo	r CCPDUs originating			
Comment		Comment Status A				OLT, this may be			J J J J J J J J J J J J J J J J J J J			
ccp_tir	mer and CCP_RE	TRY_LIMIT not defined.			Response		Response Status <b>C</b>					
Suggester					ACCE	PT.						
	Remedy				ACCE							
	•	four places: 144.4.2.1, 144.	.2.2, 144.4.2.3,	and 144.4.2.4.		vas wrong (233) a	and fixed (232)					
Remov	•	four places: 144.4.2.1, 144. <i>Response Status</i> <b>C</b>	1.2.2, 144.4.2.3,	and 144.4.2.4.	Page v	vas wrong (233) a	and fixed (232)					
Remov	ve steps i and ii in	•	1.2.2, 144.4.2.3,	and 144.4.2.4.		vas wrong (233) a SC 144.4.3	and fixed (232) P <b>232</b>	L16	# 251			
Remov Response ACCE	ve steps i and ii in PT.	Response Status C			Page v	SC 144.4.3	P232	L16 chnologies, Inc.	# 251			
Remov Response ACCE	ve steps i and ii in PT. SC <b>144.4.2.5</b>	Response Status C	L <b>38</b>	and 144.4.2.4. # 250	Page v Cl <b>144</b> Remein, D Comment	SC 144.4.3 uane Type T	P <b>232</b> Futurewei Teo Comment Status <b>A</b>	chnologies, Inc.				
Remov Response ACCE C/ 144 Remein, D	ve steps i and ii in PT. SC 144.4.2.5 puane	Response Status C P231 Futurewei Tec	L <b>38</b>	# 250	Page v Cl <b>144</b> Remein, D Comment	SC 144.4.3 uane Type T	P <b>232</b> Futurewei Teo	chnologies, Inc.				
Remov Response ACCE C/ 144 Remein, D Comment	ve steps i and ii in PT. SC 144.4.2.5 Juane Type E	Response Status C	L <b>38</b>		Page v Cl <b>144</b> Remein, D Comment	SC 144.4.3 uane <i>Type</i> <b>T</b> 144-30 does not	P <b>232</b> Futurewei Teo Comment Status <b>A</b>	chnologies, Inc.				
Remov Response ACCE C/ 144 Remein, D Comment Gramm	Ve steps i and ii in PT. SC 144.4.2.5 Duane Type E nar typo	Response Status C P231 Futurewei Tec	L <b>38</b>	# 250	Page v Cl 144 Remein, D Comment Figure Suggested	SC 144.4.3 uane Type T 144-30 does not Remedy	P <b>232</b> Futurewei Teo Comment Status <b>A</b>	chnologies, Inc.	text.			
Remov Response ACCE Cl 144 Remein, D Comment Gramr Suggested	ve steps i and ii in PT. SC 144.4.2.5 Puane Type E nar typo IRemedy	Response Status C P231 Futurewei Tec	L <b>38</b>	# 250	Page v Cl 144 Remein, D Comment Figure Suggested	SC 144.4.3 uane Type T 144-30 does not Remedy	P232 Futurewei Teo Comment Status A include an "OperandList" as	chnologies, Inc.	text.			
Remov Response ACCE Cl 144 Remein, D Comment Gramm Suggested change	ve steps i and ii in PT. SC 144.4.2.5 Puane Type E nar typo IRemedy e:	Response Status C P231 Futurewei Teo Comment Status A	L <b>38</b>	# 250	Page v Cl 144 Remein, D Comment T Figure Suggested In Figu Response	SC 144.4.3 uane Type T 144-30 does not Remedy	P232 Futurewei Teo Comment Status A include an "OperandList" as e "Data/Reserved" to "Opera Response Status C	chnologies, Inc.	text.			
Remov Response ACCE Cl 144 Remein, D Comment Gramr Suggested changu "allowi	ve steps i and ii in PT. SC 144.4.2.5 Puane Type E nar typo IRemedy	Response Status C P231 Futurewei Tec Comment Status A	L <b>38</b>	# 250	Page v Cl 144 Remein, D Comment T Figure Suggested In Figu Response ACCEI	SC 144.4.3 uane Type T 144-30 does not Remedy re 144-30 change PT IN PRINCIPLE	P232 Futurewei Tec Comment Status A include an "OperandList" as e "Data/Reserved" to "Opera Response Status C E.	chnologies, Inc.	text.			
Remov Response ACCE Cl 144 Remein, D Comment Gramr Suggested changu "allowi	ve steps i and ii in PT. SC 144.4.2.5 Duane Type E nar typo IRemedy e: ng the ONU notify	Response Status C P231 Futurewei Tec Comment Status A	L <b>38</b>	# 250	Page v Cl 144 Remein, D Comment T Figure Suggested In Figu Response ACCER	SC 144.4.3 uane Type T 144-30 does not Remedy re 144-30 change PT IN PRINCIPLE Iditional field "Op	P232 Futurewei Tec Comment Status A include an "OperandList" as e "Data/Reserved" to "Opera Response Status C E.	chnologies, Inc. indicated by this ndList/Reserved	"			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 144 SC 144.4.3 Page 99 of 103 9/17/2019 11:11:45 AM

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C/ 144 SC	C 144.4.3.1	P <b>233</b>	L <b>9</b>	# 252	C/ 144	SC 144.4.3.2	P <b>234</b>	L <b>42</b>	# 322		
Remein, Duane	9	Futurewei Tec	hnologies, Inc.		Lynskey, E	ric	Broadcom				
Comment Type	TR	Comment Status A			Comment 7	<i>уре</i> <b>т</b>	Comment Status A				
Opcode in F	Figures 144-	31 & 32 do not agree with the	e text.				e space for support of up to				
SuggestedRem	edy						served for both downstream	and upstream ac	tions.		
Align figures and text; CC_REQUEST should use Opcode 20 and CC_RESPONSE					SuggestedRemedy						
Opcode 21	(text is corre	ect).			In Figu	e 144-32, add	14 octets of Reserved follow	ing ActionUC1. A	djust the pad.		
Response Response Status C					Response Response Status C						
ACCEPT IN		Ξ.			ACCEF	ΥТ.					
Opcodes ar	re correct. Th	ne figures are wrong. 144-31	shows CC_RESP	ONSE instead of	C/ 144	SC 144.4.4.1	P <b>236</b>	L11	# 15		
CC_REQUE	EST and 144	I-32 shows the opposite. Use	correct figures.		Hajduczen	a. Marek	Charter Con	nmunications			
7 <b>144</b> SC	C 144.4.3.1	P <b>233</b>	L <b>21</b>	# 321	Comment 7	-	Comment Status A				
ynskey, Eric		Broadcom					in CH_STATE_ABSENT, C	H STATE DISAE	BLED REMOTE,		
Comment Type	т	Comment Status A				ATE_ENABLEI			_ /		
		e space for support of up to 1	6 channels in the	future, the space in	SuggestedRemedy						
		erved for both downstream a			Change	e Table 144–11	to Table 144–12.				
SuggestedRem	edy				Response		Response Status C				
In Figure 14	14-31, add 1	4 octets of Reserved followin	g StatusUC1. Adj	just the pad.	ACCE	ΥТ.					
Response		Response Status C				50 444 4 4	Daaa	1.00	# 50		
ACCEPT.					C/ 144	SC 144.4.4.4		L <b>23</b>	# 50		
			L14	# 050	Hajduczen	,		nmunications			
			L14	# 253	Comment 1	vpe ER	Comment Status A		can-vs-ma		
	C 144.4.3.1	P234					unded man Otuda, Outida				
Remein, Duane	9	Futurewei Tec			"can" u	sed and not inte	ended per Style Guide				
Remein, Duane Comment Type	TR	Futurewei Tec Comment Status R	hnologies, Inc.	-	"can" u Suggested	sed and not inte Remedy					
Remein, Duane Comment Type What preve	TR ents the "prev	Futurewei Tec Comment Status R vious persistent state" for one	hnologies, Inc.	ed with "previous	"can" u Suggested	sed and not inte Remedy	ended per Style Guide nt) can be accessed" to "(arr	ay element) is acc	cessed"		
Remein, Duane Comment Type What preve persistent s	TR ents the "prev	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar	hnologies, Inc.	ed with "previous	"can" u Suggested Chang Response	sed and not inte Remedy a "(array element		ay element) is ac	cessed"		
Remein, Duane Comment Type What preve persistent s	TR ents the "prev state" for ano bear to be bro	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar	hnologies, Inc.	ed with "previous	"can" u <i>Suggested</i> Chang	sed and not inte Remedy a "(array element	nt) can be accessed" to "(arr	ay element) is ac	cessed"		
Remein, Duane Comment Type What preve persistent s thereby app SuggestedReme Add footnot 1 The ONU	TR ents the "previstate" for ano bear to be bro edy the to Persiste shall refuse	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar oken? enceFlag = 1 any instruction that would re	hnologies, Inc. e channel combine i ONU with all cha	ed with "previous nnels disabled and	"can" u Suggested Chang Response	sed and not inte Remedy a "(array element	nt) can be accessed" to "(arr	ay element) is acc	cessed"		
Remein, Duane Comment Type What preve persistent s thereby app SuggestedReme Add footnot 1 The ONU channels in	TR ents the "previstate" for ano bear to be bro edy the to Persiste	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar oken? enceFlag = 1 any instruction that would re ction.	hnologies, Inc. e channel combine i ONU with all cha	ed with "previous nnels disabled and	"can" u Suggested Chang Response	sed and not inte Remedy a "(array element	nt) can be accessed" to "(arr	ay element) is ac	cessed"		
Remein, Duane Comment Type What preve persistent s thereby app SuggestedReme Add footnot 1 The ONU channels in Response	TR ents the "previstate" for ano bear to be bro edy the to Persiste shall refuse	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar oken? enceFlag = 1 any instruction that would re	hnologies, Inc. e channel combine i ONU with all cha	ed with "previous nnels disabled and	"can" u Suggested Chang Response	sed and not inte Remedy a "(array element	nt) can be accessed" to "(arr	ay element) is ac	cessed"		
Remein, Duane Comment Type What preve persistent s thereby app SuggestedReme Add footnot 1 The ONU channels in	TR ents the "previstate" for ano bear to be bro edy the to Persiste shall refuse	Futurewei Tec Comment Status R vious persistent state" for one ther change from creating ar oken? enceFlag = 1 any instruction that would re ction.	hnologies, Inc. e channel combine i ONU with all cha	ed with "previous nnels disabled and	"can" u Suggested Chang Response	sed and not inte Remedy a "(array element	nt) can be accessed" to "(arr	ay element) is ac	cessed"		

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

C/ 144 SC 144.4.4.4 Page 100 of 103 9/17/2019 11:11:45 AM

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C/ 144 SC 144.5.4.4	P <b>242</b>	L <b>53</b>	# 354	C/ 149 SC 149.3.2.2	.4 P89	L <b>24</b>	# 468
Laubach, Mark	Broadcom			Brandt, David	Rockwell Auto	omation	
Comment Type E	Comment Status A		bucket	Comment Type E	Comment Status D		wrong-ballot
Tables in the PICS need b	pottom ruling enabled.			Figure 149-6 lacks arro	ow ends on TXD<32> and TXI	D<63>.	
SuggestedRemedy Make it so.				SuggestedRemedy Add arrow ends on TX	D<32> and TXD<63>.		
Response ACCEPT.	Response Status C			Proposed Response PROPOSED REJECT.	Response Status Z		
C/ 149 SC 149.1.3	P <b>71</b>	L <b>27</b>	# 476	This comment was WI	THDRAWN by the commente	r.	
Brandt, David	Rockwell Auto	mation		I do not think this draft	includes clause 149. Wrong p	project?	
Comment Type E	Comment Status D		wrong-ballot	C/ 149 SC 149.3.9	P120	L <b>20</b>	# 477
	istent with Figure 44-1 and I	Figure 125-1.		Brandt, David	Rockwell Auto	omation	
SuggestedRemedy Change: "RS-FEC PCS"				Comment Type E	Comment Status D		wrong-ballo
To: "64B/65B RS-FEC PC	CS"			Missing space			-
Proposed Response	Response Status Z			SuggestedRemedy			
PROPOSED REJECT.				Change: "OAM10-bit" To: "OAM 10-bit"			
This comment was WITH	DRAWN by the commenter			Proposed Response PROPOSED REJECT.	Response Status Z		
I do not think this draft inc	cludes clause 149. Wrong p	roject?					
C/ 149 SC 149.1.3.1	P <b>72</b>	L38	# 479	This comment was WI	THDRAWN by the commente	r.	
Brandt, David	Rockwell Auto			I do not think this draft	includes clause 149. Wrong p	project?	
Comment Type E Missing dashes.	Comment Status D		wrong-ballot				
SuggestedRemedy							
Change: "3260 bit block" To: "3260-bit block", in 2 l	locations						
Proposed Response	Response Status Z						
PROPOSED REJECT.							
This comment was WITH	DRAWN by the commenter						

C/ 149 SC 149.3.9

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	# 478	C/ 149	50	149.5.3.2	P160	L20	# 470
	# 410	-		149.3.3.2	Rockwell Aut		# 470
	,	Brandt, Dav		-		unation	
Comment Type E Comment Status D	wrong-ballot	Comment T		Т	Comment Status D		wrong-ballo
Should this refer to the "State Variables to OAM Register Mapping Clause 97 to be BASE-T1? Why do they need to appear twice?	" that were edited in				tenmt. 149.5.3.1 has "frame counted as 149.5.3.2 "frame		
SuggestedRemedy		There s			er correction after RS-FEC	. Both use the s	ame link segment
Refer to the modified Clause 97 Table 97-6 for the BASE-T1 mapp additional mappings for MultiGBASE-T1.	SuggestedF						
Proposed Response Response Status Z	Consider whether the same terminology, packet sizes and measurement points can be used.						
PROPOSED REJECT.		Proposed R	espor	ise	Response Status Z		
This comment was WITHDRAWN by the commenter.		PROPC	SED	REJECT.			
I do not think this draft includes clause 149. Wrong project?		This co	mmen	t was WIT	IDRAWN by the commenter	er.	
C/ 149 SC 149.5.3.1 P160 L11	# 469	l do not	think	this draft ir	cludes clause 149. Wrong	project?	
Brandt, David Rockwell Automation		C/ 149	SC	149.9.2.2	P169	L <b>4</b> 1	# 471
Comment Type T Comment Status D	wrong-ballot	Brandt, Dav		145.5.2.2	Rockwell Aut		
I don't see where the frame error ratio comes from. If I assume this		,		-		omation	uma na halla
addresses and FCS, I get FER = 1e-12 * (800 + 22) * 8 = 6.6e-9. I	note that 149.5.3.2 does	Comment Type <b>T</b> Comment Status <b>D</b> wrong-ball This paragraph has 2 shalls that apply to entire products. The seems out of our scope.					
not add any MAC farme overhead.		•	• •		alls that apply to entire proc	lucts. The seem	is out of our scope.
SuggestedRemedy		SuggestedF	Remec	ly			
Please check the math or describe better.		Suggest the "shalls" be replaced with text in the spirit of the last sentence of the paragraph. Change1st: "shall", To: "is expected be able to" Change 2nd: "shall be tested", To: "is expected to allow products to be tested"					
Proposed Response Response Status Z							
PROPOSED REJECT.				and ES5.	sted, 10. is expected to a	now products to	be lesied
This comment was WITHDRAWN by the commenter.		Proposed R	lespor	ise	Response Status Z		
·		PROPC	DSED	REJECT.			
I do not think this draft includes clause 149. Wrong project?		This comment was WITHDRAWN by the commenter.					
		l do not	think	this draft in	cludes clause 149. Wrong	project?	

C/ 149 SC 149.9.2.2 Page 102 of 103 9/17/2019 11:11:45 AM

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C/ Content SC Contents	P <b>20</b>	L <b>46</b>	# 428
Dawe, Piers	Mellanox		
Comment Type E	Comment Status A		bucket
Annex 31A (normative) sequence 2A.2QC-LDPC FEC End	Annex 142A (normative) 142 coder Test Vectors	A.1Example of i	nitial control seed
SuggestedRemedy			
Sort out formatting / doc	cument structure		
Response	Response Status <b>C</b>		
ACCEPT.			
CI TOC SC TOC	P <b>20</b>	L <b>46</b>	# 271
Kramer, Glen	Broadcom		
Comment Type E	Comment Status A		bucket
TOC entries 31A, 142A	and 142A.1 all got concater	nated into a singl	le entry
SuggestedRemedy			
Fix TOC format			
Response	Response Status C		
ACCEPT.			

CI TOC SC TOC Page 103 of 103 9/17/2019 11:11:45 AM