C/ FM	SC	P1	L 27	# <u>2</u> 75	C/ FM	SC FM	P10	L 31	# 280
Marris, Arth	ur	Cadence De	sign Systems		Wienckow	vski, Natalie	General Motors		
Comment T	pe ER	Comment Status A		bucket	Comment	Туре Е	Comment Status A		bucket
802.3cd	is published.				802.3	-2018 has been	n published		
SuggestedF	Remedy	ription of what this amendmer x to 802.3cd-2018 here and o		L	To: 80	dRemedy ge: 802.3-201x 02.3-2018 on P10 L37 & P			
Also cha	ange "IEEE S	td 802.3-201x" to "IEEE Std 8	02.3-2018" throu	ghout the document.	Response ACCE		Response Status C		
Also on	page 10 repla	ace "This amendment include	s [complete]" with	appropriate text.	C/ FM	SC FM	P10	L 38	# 282
Response		Response Status C					General Motors	L 30	# 202
ACCEP	Т.					vski, Natalie	Comment Status A		huskat
C/ FM	SC FM	P1	L 27	# 279	Comment 802.3	<i>Type</i> E bt also added A			bucket
Wienckows	ki, Natalie	General Mot	ors		Suggeste				
Comment T 802.3cd	<i>ype</i> E has been pul	Comment Status A blished		bucket	Chan	ge: Annex 145	A, and Annex 145B. nex 145B, and Annex 145C.		
SuggestedF	Remedy				Response	9	Response Status C		
To: 802	: 802.3cd-20 ⁻ .3cd-2018 P10 L43.	1x			ACCE	EPT.			
Response		Response Status C							
ACCEP	т.								
C/ FM	SC FM	P 9	L 5	# 436					
Powell, Will	iam	Nokia							
Comment T	pe TR	Comment Status A							
This intr Amendr	oduction is no nent: Physica	s to 100 Gb/s EPON: ot part of IEEE P802.3ca, IEE I Layer Specifications and Ma Passive Optical Networks.							
SuggestedF	Remedy								
Amendr	oduction is no nent: Physica	ot part of IEEE P802.3ca, IEE I Layer Specifications and Ma cal Networks.							
Response		Response Status C							
ACCEP	т								

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line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

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

C/ FM	SC FM	P10) L 49	# 59
Zimmerman	, George	CME	Consulting/ADI, AP	L Gp, Aquantia, BMW, Cisc
Comment Ty	/pe E	Comment Status	Α	frontmatter
descripti		02.3cq amendments bef ca - It would be REALLY		sing, as well as the t 802.3ca is intending to put
SuggestedR	emedy			
	2.3cg, 802.3 ption for 802		cq descriptions fror	m 802.3cn D2p1, and fill in
Response		Response Status	С	
ACCEP	T IN PRINCI	PLE.		
Update	FrontMatter 1	to the latest version avai	lable.	
Include	summary de	scription of IEEE Std 80	2.3ca™-201x as fo	llows:
specifies Physical Medium rates wh equipme	s the 25 Gb/s I Coding Sub Dependent iile maintaini	blayers (PCSs), Physical sublayers (PMDs) that s ing backward compatibili DN operation is defined f	Reconciliation Subla I Media Attachment upport both symme ity with already dep	ayer (MCRS), 25GBASE-PQ is (PMAs), and Physical etric and asymmetric data
C/ FM	SC FM	P10) L 50	# 64
Anslow, Pet	е	Ciena		
Comment Ty	/pe E	Comment Status	Α	frontmatter; bucket
The sum	imary text fo	or IEEE Std 802.3ca-20x	x is missing	
SuggestedR Add suit	e <i>medy</i> able summa	ıry text		
Response		Response Status	С	
•	T IN PRINCI		С	

C/ FM	SC FM		P 10	L 52	# 281
Wienckowsl	ki, Nat	alie	General Motors		
Comment Ty	ype	Е	Comment Status A		frontmatter; bucket
Need to	add a	des	cription 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 Medium 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	Response Status	С
ACCEPT IN PRINCIPL	E.	

See comment #59 C/ FM SC FM P 20 L46 # 65 Anslow. Pete Ciena Comment Status A Comment Type Ε bucket The TOC entries for Annex 31A and Annex 142A are mixed together and they both say (normative). SuggestedRemedy Fix the TOC Response Response Status C ACCEPT.

C/ FM SC FM

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

CI 00	SC 0	Р	L	# 63	C/ 00	SC 0	PO	LO	# 466
Zimmerm	nan, George	CME Cons	ulting/ADI, APL G	o, Aquantia, BMW, Cisc	Thompson	n, Geoff	GraCaSI S.A	./Independent	
Commen	t Type E	Comment Status A	0		Comment	Type ER	Comment Status A	·	
		D2F3 value/comment implie: ling in the requirement itself					the ISO Reference Model, the r Physical Layer is imprecisely pla		ayer dividing line
		t shall be able to tolerate wit			Suggeste	dRemedy			
Also,	this PICS item	be able to tolerate, OR shall to is a duplicate of PQG2510D2 requirements in the Table (an	2F2, because that	PICS item includes		right end of the	e dashed line precisely at the u	pper left corner o	of the MCRS box in all
the re	equirement allov	vs labeling, the damage three	shold needs to be	removed from the table.	Response	;	Response Status C		
	,	EE Std 802.3 2018 handles th	0 1	irements both ways -	ACCE	PT.			
		a label, or simply meeting th opears to be that the requirer		the level specified	CI 00	SC O	P 0	L 0	# 467
		114, 115, 121, 122, and 124	follow this model,	see, e.g., PICS	Thompso	n, Geoff	GraCaSI S.A	./Independent	
		24-7 and PICS 124.12.4.3)	iirement may be n	et OR the PMD may	Comment	Type ER	Comment Status A		
be la	However, Clauses 60 and 75 specify that the requirement may be met, OR the PMD may be labeled. In this case, the requirement to withstand damage is actually to either meet th evel OR label appropriately.						the ISO Reference Model, the r and Network Layer is imprecisel		ayer dividing line
The	ama aammant	applies to ALL the DMD read	iver demoge three	hold DICC	Suggeste	dRemedy			
	dRemedy	applies to ALL the PMD rece	iver damage thes	noid PICS.		right end of the all instances.	e dashed line precisely at the u	pper left corner o	of the MPMC CLIENT
		ent (see comment): S for the damage threshold.			Response ACCE		Response Status C		
OR: strip	the damage thr	eshold out of the table into th	e normative text	and rewrite the	C/ 00	SC 0	P10	L 49	# 58
requi	rement in the no	ormative text (in 141.5.2) as s			Maguire,	Valerie	The Siemon	Company	
	ple text:	hreshold of XXX shall be met	or the receiver	hall he lehaled to	Comment		Comment Status A		frontmatter; bucke
indica	ate the maximur	m optical input power level to					ndment 4: 802.3cg is missing.		,
(whei		pecifies the separate table wit t - whichever is more straight		eshold or just puts the		, "IEEE Std 80	2.3cg™-20xx Amendment 4—T 8 and adds Clause 146 through		
(sam	e remedy applie	es to other receiver damage t	hreshold PICS).		Annex	k 146B. This ar	mendment adds 10 Mb/s Physic	cal Layer specific	cations and
esponse	9	Response Status C				• •	eters for operation over a single	e balanceu pair c	n conductors.
ACCI	EPT IN PRINCI	PLE.			Response ACCE		Response Status C		

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

See comment #59

C/ 00 SC 0

Approved Responses IEEE P8

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

C/ 00	SC 0)	P 21	L 46	# 429	C/ 1	SC ·	1.3	P 22	L15	# 67	
Dawe, Pier	rs		Mellanox			Anslow, P	ete		Ciena			
Comment 1	Туре	Е	Comment Status A		frontmatter; bucket	Comment	Туре	Е	Comment Status A			bucke
			"other IEEE 802.3 amendmen E P802.3bk)"	t projects run	ning in parallel (e.g.,				in-force standard have an em s also true for other "-" separat			aces
Suggestedl	Remedy	/				Suggestee	dRemed	ly				
Use an	n up-to-c	date exar	nple, refer to template maintai	ner to update	if not already done				being added replace " - " before		nce", "Part", and	
Response			Response Status C					" with ar	n em dash with no spaces befo	re and after.		
ACCEF	PT IN P	RINCIPL	E.			Response			Response Status C			
See co	omment	#59				ACCE	PT.					
C/ 1	SC 1	.3	P 22	L 8	# 430							
Dawe, Pier	rs		Mellanox									
Comment 1	Туре	т	Comment Status A									
remove	ed G.65	2.A and	w.itu.int/itu-t/workprog/wp_ite G.652.C, leaving B and D. Ye mpression that they don't.									
Suggestedl	Remedy	V										
new ref	ference	to G.562	ant to include types A and C f 2-2016, leaving G.652-2009 in 2009, which remains available	place. If you								
Response			Response Status C									
ACCEF	PT IN P	RINCIPL	E.									
			G.652-2016, leaving G.652-2 o the right location. Make all re									
C/ 1	SC 1	.3	P 22	L13	# 66							
Anslow, Pe	ete		Ciena									
Comment 1	Туре	Е	Comment Status A		bucket							
	eference	es in the	in-force standard do not have	a date at the	end of the title							
IEEE re												
Suggestedl	-	/ .ly 2017"										

C/ 1 SC **1.3**

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

/ 1	SC	1.4	P 22	L 24	# 68		Response ACCE		Response	e Status C		
nslow, F	Pete		Ciena				ACCE	ΓΙ.				
omment	Туре	Е	Comment Status A			bucket	C/ 1	SC 1.4.	90a	P 22	L 45	# 432
			definitions in 1.4 is defined at:				Dawe, Pie	rs		Mellanox		
			rg/3/WG_tools/editorial/require		nl#sort		Comment	Type E	Commer	nt Status A		buck
			en correctly applied to the P80									Suon
Also,	definitio	ons are u	sually presented in subclause	order in amendr	nents.		the ma	aximum sus	stained throughput	[
ıggeste	dReme	dy					Suggestee	Remedy				
In 1.4	, chang	e the ed	iting instructions and definitior	numbering as fo	llows:		a max	imum susta	ained throughput (several times)		
Inser	the foll	owing ne	ew definitions after 1.4.90 "200	GXS":			Response		Response	e Status C		
-		G-EPO					•		Response			
		5G-EPO					ACCE	PI.				
		owing ne G-EPON:	ew definition after 1.4.100 "250 	BASE-1":			C/ 1	SC 1.4.	244a	P 23	L18	# 459
			ew definitions before 1.4.128a	a "50GBASE-CR'	' as inserted by	y IEEE	Thompson	n, Geoff		GraCaSI S.A	./Independent	
	02.3cd-2		PON:				Comment		R Commer	nt Status R		
			PON:								no" in this contaxt	t. Please refer to it as
			PON:						e" to distinguish it			
			ew definition after 1.4.128ah "s	50 Gb/s Media Ind	dependent Inte	rface		•	c to distinguish it		be frame.	
(50Gl	MII)" as	inserted	by IEEE Std 802.3cd-2018:		•		Suggestee	-				
		G-EPON					Chang	e the follow	ving text: "In the N	Iulti-Channel Re	conciliation Subla	yer (MCRS, see
			ew definitions after 1.4.244 "Er	nergy-Efficient Et	hernet (EEE)":							LLID being transmitted
		elope:										onciliation Sublayer
			ocation:						nitted on a specifi			nging to a specific
			scriptor: w definitions after 1.4.245 "er	velone frame"				0	•		,	
			ader:				Response		Response	e Status U		
			lantum:				REJE	CT.				
	45c EQ											
		owing ne	ew definition after 1.4.277 "Gig	abit Media Indep	endent Interfac	ce	When	selecting t	ne term "envelope	", the TF has re	viewed the base d	locument to ensure
(GMI)":						there	was no con	flict of terms. In th	e existing body	of IEEE Std 802.3	3, the word "envelope"
	77a GP								o contexts: ie(s)" - always us	ad as this same	inction of words	
		278 as fo	llows:								D focus of a given	clause
	78 Gran		under and frame 1.1.010 days to	de a state d'assa at A		0.1						clauses will not be
			umbered from 1.4.313 due to	the deletion of 1.	4.294 by IEEE	Sta						onfusing because the
) as follo	dentifier (LLID):				term "	envelope" i	s not related to tim	ne. but rather it i	s related to a num	ber of bits/octets
			or "MCRS channel" after 1.4.3	19 "maximum di	forential input	' (ro-			or received.	-,		
			20 due to the deletion of 1.4.2				0					
follow					02.001 2010) 8	15						
		RS chan	nel:									
			or "Nx25G-EPON" after 1.4.3	50 "NRZI" (re-nun	nbered from 1.	4.351						
			1.4.294 by IEEE Std 802.3bt-									

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 **1.4.244a** Page 5 of 103 8/4/2019 8:18:17 AM

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

C/ 1	SC 1.4.244b	P 23	L 22	# 460	C/ 1	SC ·	1.4.244c	P 23	L 26	# 461
Thompsor		GraCaSI S.A.			Thompso			-	./Independent	
Comment	Type ER	Comment Status R	·		Comment	t Type	TR	Comment Status A	·	
	e previous comme . This will be a ca	ent, the general term "envelo use for confusion.	pe" is already us	ed elsewhere in	The p Suggeste			describe" the timing envelop	be, they are its de	fining parameters.
Suggested	dRemedy				•••		ribe" to "d	efine"		
uses o throug	of the term envelo	use at this level as a "timing be. The change is needed h lease do a global search and modification.	ere and many pla	aces elsewhere	Response	9	PRINCIPLE	Response Status C		
Response	9	Response Status U			See o	comment	t #433			
REJE	CT.				C/ 1	SC	1.4.244c	P 23	L 26	# 433
other t throug	terms. The term it ghout the draft.	elopes" used in the standard self is defined as a term (1.4				<i>t Type</i> 't know w		Mellanox Comment Status A lean by "tuple". As you don n't appear in Section 1 with i		
See c	omment #459.				Suggeste	dRemed	ly			
C/ 1	SC 1.4.244b	P 23	L 23	# 28	Chan	ge to "se	equence".			
Comment	51	Charter Comr Comment Status R nded per Style Guide	nunications	can-vs-may	Response ACCI		PRINCIPLE	Response Status C E.		
Suggested	dRemedy	MPCPDU can carry up" to '	A single GATE N	MPCPDU may carry				e are wrong here as the ord ing ordered in envelope des		s a set of homogenou
up" Response	CT.	Response Status C			EnvL Enve	ength. A lope des	n envelope criptors ar	riptor: A set of parameters of e descriptor defines a specif e generated by the local MF to start the envelope transm	ic envelope pend CP sublayer and	ing transmission.

C/ 1 SC **1.4.244c**

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

C/ 1	SC 1.4.244d	P 23	L 30	# 462	C/ 1	SC 1.4.	245a	P 23	L35	# 112
Thompson	, Geoff	GraCaSI S.A	A./Independent		Remein, I	Duane		Futurewei Te	chnologies, Inc.	
omment T	Type TR Com	ment Status A			Comment	t <i>Туре</i> т	C	omment Status A		
					encoo envel 142 (ding and EQ ope quantun	would be 6 contains	nt is true for a short time 64.25 bits) "Within PCS 66 bits." The stand-a-a). In both cases the ten	after the 64B/66 lone term "EQ" is	B encoding, an so only used 2x in Cl
Rewrite	e the definition text to ac	tually be a distinguis	shing term that car	n be understood.	Suggeste					
esponse ACCEF	Respo PT IN PRINCIPLE.	onse Status C			Remo		ment "With	nin PCS, after the 64B/6	6B encoding, an	envelope quantum
every e Continu source	e definition to read: An M envelope (Envelope Star uation Header). The enve d the encapsulated data rs also include CRC8 fiel	t Header) and in place elope header include and the length of th	ce of every frame es fields that ident ie data (in units of	preamble (Envelope ify the LLID that	lf moo highe	EPT IN PRIN dified as pro r sublayers,	CIPLE. bosed, the MCRS, bu	sponse Status C definition would be inco t would ignore PCS. It is	better to extend	I the definition as
1 nompson	SC 1.4.245a	P 23 GraCaSLS A	L 33 A./Independent	# 463		fter 256B/25		ne 64B/66B encoding, a ng, four envelope quant		
omment 7		ment Status A			C/ 1	SC 1.4.	245b	P 23	L38	# 465
layer a	very confusing. As far a nd above that is any fine ication (and identification <i>Remedy</i>	r grained than a MA	C Frame. The tex	kt implies that the		<i>Type</i> E ms like a rea	ally bad ide	GraCaSI S.A comment Status R ea to make this term spe at any other speed.	·	
Rewrite	e so it is more obvious th	at the quantization of	only exists within t	he RS and below.	Suggeste			, ,		
esponse	Resp	onse Status C			00	ge to bit time	es.			
ACCEF	PT IN PRINCIPLE.				Response	9	Re	sponse Status C		
EPON- it, just l	a fair observation. MAC -specific MAC Control ar like in previous EPON ge of quantization unit TQ (d MAC Control Clie enerations, the MAC	nt (out-of-scope fo Control and MAC	or 802.3) are aware of Control Client were	25G/2 refere	ne OLT to be 25G and 250	able to sc 3/10G coex	hedule a mix of 25G an kistence mode), the sch s specifically introduced downstream direction i	eduler needs to h	nave some common

>>>Control<<< sublayer and above, an envelope quantum is equal to 64 bits. Within the 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.

But for ONUs transmitting at 10Gb/s, the transmission time of 1 EQ is 2.5 EQTs. In other 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.

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 **1.4.245b** Page 7 of 103 8/4/2019 8:18:17 AM

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

C/ 1	00 4 4 979	P 22	1.04	# 101	C/ 1		1.5	P23	L 52	# 000
Dawe, Pi	SC 1.4.278	P ZZ Mellanox	L 31	# 431	Lynskey,		1.5	P 23 Broadcom	L 32	# 306
Comment		Comment Status A			Comment		Е	Comment Status A		bucket. CDR
	51	nts about one or multiple upsti	eam bursts.				_	nt in IEEE 802.3-2018.		
Chan	ge:				Suggeste	dReme	dv			
		Each grant results in Im bursts transmitted by the C	NU. In Clause 1	44, a grant includes	Remo)			
		r multiple LLIDs. The OLT co			Response	Э		Response Status C		
	spondence betwe	OUs, all having the same Start en	Time values. Th	ere is a one-to-one	ACCI	EPT.		, -		
Suggeste	dRemedy				C/ 1	SC	1.5	P23	L 52	# 434
to: In Cla		each grant results in			Dawe, Pi	ers		Mellanox		
one c envel	or multiple upstreat ope allocations for	m bursts transmitted by the C r multiple LLIDs, the OLT con	veys a grant to t	he ONU using one or	Comment CDR		E stand fo	Comment Status A r clock data recovery		bucket, CDR
	spondence betwe	OUs, all having the same Start en	nine values, an	d there is a one-to-one	Suggeste	dReme	dy			
Response	9	Response Status C			Chan	ge to cl	ock and	data recovery		
ACCI	EPT IN PRINCIPL	.E.			Response	Э		Response Status C		
The r	proposed changes	would make the definition ev	en more confusi	na. Use the followina	ACCI	EPT IN	PRINCIP	PLE.		
	ted definition:			ngi eee me renormig	See o	commer	nt #306			
		P2MP protocols, a permission			C/ 1	SC	1.5	P23	L 54	# 70
speci GATI	fic duration. Gran E messages. In C	ts are issued by the OLT (ma lause 64 and Clause 77, a GA	ster) to ONUs (s TE MPCPDU co	laves) by means of ontains one or multiple	Anslow, F	Pete		Ciena		
grant	s issued to a sing	le LLID, with each grant resul	ting in one or mu	Iltiple upstream bursts	Comment	t Type	Е	Comment Status A		bucket
		J. In Clause 144, a grant inclu ne-to-one correspondence bet			New	abbrevia	ations ar	e usually presented in alphabetic	cal order	
		nitted by that ONU.	j		Suggeste	dReme	dy			
C/ 1	SC 1.5	P 23	L 51	# 69	Sort t	he new	abbrevia	tions in to alphabetical order		
Anslow, F	Pete	Ciena			Response			Response Status C		
Commen	tType E	Comment Status A		bucket	ACCI	EPT.				
"CDR	" is already prese	ent in 1.5 Abbreviations in the	base standard.							
Suggeste	dRemedy									
Remo	ove "CDR clock d	ata recovery" from the list of n	ew abbreviation	S						

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

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

C/ 1	SC 1.5	P 24	L 9	# 260		C/ 30	SC 30.5.1	.1.2	P 27	L 2	# 392
D'Ambrosi	a, John	Futurewei, U.S	Subsidiary of	Huawei		Dawe, Pie	ers		Mellanox		
Comment Add at	<i>Type</i> E	Comment Status A			bucket	Comment Multip	,,		ment Status A ame description		
Suggestea	Remedy					Suggested	dRemedy				
MCRS	- multi channel	reconciliation sublayer				Add w	ords to distin	guish them			
Response ACCE	PT.	Response Status C				Response ACCE	PT IN PRINC		onse Status C		
C/ 1	SC 1.5	P 24	L10	# 71		Apply	the following	changes to	MAU description, us	ing 25GBASE-P	QG as an example:
Anslow, P	ete	Ciena			<u>-</u>	25GB	ASE-PQG-D2	(One single mode fibe	er. 1x25G continu	ious transmission /
"Physi	ling to: www.ieee802.org cal Layer" is "alw	Comment Status A y/3/WG_tools/editorial/requirer vays capped"	nents/words.htr	nl	bucket	25GB 1x250 25GB	ASE-PQG-D3 burst mode ASE-PQG-U2	c reception, h	nedium power class, Dne single mode fibe igh power class, as Dne single mode fibe redium power class,	er, 1x25G continu specified in Clau er, 1x25G burst n	ious transmission / use 141 node transmission /
							ASE-PQG-U3 continuous SC 31A		One single mode fibe igh power class, as s P 246		
Response		- Response Status C				Anslow, P	ete		Ciena		
	PT IN PRINCIPL					Comment	Type E	Com	ment Status A		buck
Per co C/ 30 _aubach, I	SC 30.3.5.1.4	e capitalization on page 203/1 4 P 26 Broadcom	1 L 38	# 327		Std 80 The V 802.3	2.3 without c alue/Comme without chan	hange. ht entry for (ge.	GATE has been in pl	lace since the 20	998 version of IEEE 05 version of IEEE Std changes to be made.
Comment		Comment Status A				Suggestee	dRemedy				
	51	end of the line during original	editing. This is	needed to be		remov	e the change	s shown to	these rows of the tak	ole.	
consis	tent with Clause	30 format.	-			Response		Resp	onse Status C		
Suggestea	Remedy					•	PT IN PRINC	'			
Add th	e ";" to the end c	of the line.				D					
Response ACCE	PT.	Response Status C				rows f	or REPORT,	REGISTER	GATE (missing "s" a _REQ, REGISTER, (unchanged rows are	and REGISTER	

C/ 31A SC 31A

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Cl 45	SC 45.2.1	P 29	L 20	# 72	C/ 45	SC 45.2.1.2	3a P 30	L 5	# 75
Anslow, Pe	ete	Ciena			Anslow, Pete	•	Ciena		
Comment 7	Гуре Е	Comment Status A		bucket	Comment Ty	be E	Comment Status A		bucke
		ipsis characters in the middle 3.80, 3.81, and 3.82 should be					of 45.2.1.23a.2 is Downstrear ne" entry for bit 1.29.15 in Tab		oding, so this is what
Suggested	Remedy				SuggestedRe	emedy			
Move t	he rows for reg	e two underlined ellipsis chara isters 3.80, 3.81, and 3.82 to 7 ling of Table 45-3 to the table of	able 45-176	lle of the table.	encoding	me cell for b	it 1.29.15, change "DS_Diff_E		
Response ACCEF	PT.	Response Status C			"1 = Dow	nstream diffe	l for bit 1.29.15, change " Dov erential encoding enabled rential encoding disabled"	vnstream differer	ntial encoding" to:
CI 45	SC 45.2.1	P 29	L 20	# 113	Response ACCEPT		Response Status C		
Remein, D		Futurewei Teo	chnologies, Inc.		ACCELL	•			
Comment 1		Comment Status A		bucket	C/ 45	SC 45.2.1.2	3a.1 P 29	L 37	# 114
Ellipse	s need not be s	hown as added in Table 45-3	7th row.		Remein, Dua	ine	Futurewei Te	echnologies, Inc.	
Suggested	Remedy				Comment Ty	be E	Comment Status A		bucke
remove Response	e underlining or	ellipses. Response Status C			Bit definit 45.2.1.1		cally ordered high to low (at le	east that is how t	hey are defined in
ACCEF	PT.				SuggestedRe	2			
C/ 45	SC 45.2.1	P 29	L 29	# 60			that 45.2.1.23a.2 Downstream MA/PMD type selection (1.29		coding (1.29.15) comes
Zimmerma	n, George	CME Consulti	ng/ADI, APL Gp	, Aquantia, BMW, Cisc	Response		Response Status C		
Comment T	Гуре Е	Comment Status A		bucket	ACCEPT				
Editing	instruction nee	eds to include 802.3cg which a	lso modified Tab	ble 45-3.	C/ 45	SC 45.2.1.2	3a.1 <i>P</i> 29	L37	# 73
Suggested	Remedy				Anslow, Pete		Ciena	-••	
		y IEEE Std 802.3cb-2018 and			Comment Ty		Comment Status A		bucke
	ed by IEEE Std	802.3cb-2018, IEE Std 802.3c	d, and IEEE 80	2.3cg-201x)	,		r side of 45.2.1.23a define the	e bits in order of	
Response	T	Response Status C			SuggestedRe	emedv			-
ACCEF	-1.				Swap the	2	definitions so that bit 1.29.15 a.2	is defined in 45	.2.1.23a.1 and bits

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

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SC 45.2.1.23a.1	P 29	L 41	# 16	C/ 45	SC 45.2.1.1	34a	P31	L 10	# 393
Marek	Charter Com	munications		Dawe, Pie	ers		Mellanox		
e ER Comm	nent Status A			Comment	Type E	Comment	Status R		
I" statements were add	ded, but updates to	PICS are missing	I	Table	title wraps too s	short			
medy				Suggested	dRemedy				
PICs per hajduczenia_3	3ca_1_0719.pdf			Make	the text box for	table title wide	r		
Respor	nse Status C			Response		Response	Status C		
				REJE	CT.				
SC 45.2.1.23a.2	P 29	L 45	# 74					e, 2-3 characters	flow into line 2. Title
	Ciena			was io			e.		
e E Comm	nent Status A		bucket	C/ 45	SC 45.2.1.1	34a	P 31	L 15	# 76
		Encoding" should	be "Downstream	,		Commont	Ciena		
medy					51			of the other regi	atora in Clause 45
	e: "Downstream Di	ferential Encoding	g" to: "Downstream	contai	ning PMA/PMD	ability" bits us	se the text:	or the other regi	sters in Clause 45
Respor	nse Status C			The te used f	ext in Table 45-1 for the other PM	103a for the PM IA/PMD "ability	1A/PMD "ability' " bits in Clause	" bits should be c 45	
SC 45.2.1.23a.2	P 29	L 50	# 115					e used to indicate	e whether a device is
ne	Futurewei Te	chnologies, Inc.			• •		.91 -		
e E Comm	nent Status A	0	bucket	00		nge the text in	the Description	column for all PI	MA/PMD "ability" bits to
and "RX PMA" are poo	orly defined.			the for	rm:	-			
medy									
to "transmit PMA" and to "receive PMA"	1			•			•		
Respor	nse Status C								
	Marek e ER Comm I" statements were add nedy PICs per hajduczenia_3 Respon 6C 45.2.1.23a.2 e E Comm of 45.2.1.23a.2 "Dowr l encoding" (lower case nedy of 45.2.1.23a.2 chang l encoding" Respon 6C 45.2.1.23a.2 chang 1 encoding" 1 encoding"	Marek Charter Comme e ER Comment Status A I" statements were added, but updates to medy PICs per hajduczenia_3ca_1_0719.pdf Response Status C SC 45.2.1.23a.2 P 29 Ciena e E Comment Status A of 45.2.1.23a.2 "Downstream Differential encoding" (lower case d and e) medy of 45.2.1.23a.2 change: "Downstream Dif encoding" Response Status C SC 45.2.1.23a.2 P 29 ne Futurewei Te e E Comment Status A and "RX PMA" are poorly defined. medy to "transmit PMA" and	Marek Charter Communications e ER Comment Status A I" statements were added, but updates to PICS are missing medy PICs per hajduczenia_3ca_1_0719.pdf Response Status C SC 45.2.1.23a.2 P 29 L 45 Ciena e E Comment Status A of 45.2.1.23a.2 "Downstream Differential Encoding" should encoding" (lower case d and e) medy of 45.2.1.23a.2 change: "Downstream Differential Encoding" Response Status C SC 45.2.1.23a.2 P 29 L 50 ne Futurewei Technologies, Inc. e E Comment Status A and "RX PMA" are poorly defined. medy to "transmit PMA" and to "receive PMA"	Marek Charter Communications e ER Comment Status A "statements were added, but updates to PICS are missing medy PICs per hajduczenia_3ca_1_0719.pdf Response Status C SC 45.2.1.23a.2 P 29 L 45 # [74 Ciena e E Comment Status A bucket of 45.2.1.23a.2 "Downstream Differential Encoding" should be "Downstream encoding" (lower case d and e) medy of 45.2.1.23a.2 change: "Downstream Differential Encoding" to: "Downstream encoding" Response Status C SC 45.2.1.23a.2 P 29 L 50 # [115] the Futurewei Technologies, Inc. e E Comment Status A bucket and "RX PMA" are poorly defined. medy to "transmit PMA" and to "receive PMA"	MarekCharter CommunicationsDawe, Pie e ERComment Status AComment" statements were added, but updates to PICS are missingTable $medy$ Suggested $medy$ Response Status CResponse $Response Status$ CResponseResponse $Ciena$ Ciena $C/45$ e Comment Status Abucket $ciena$ $C/45$ T_4 e Comment Status Abucket $of 45.2.1.23a.2$ P29 $L45$ T_4 e Comment Status Abucket $C/45$ e Comment Status Abucket $C/45$ e Comment Status Abucket $C/45$ e Comment Status Abucket $Table$ e Comment Status A C <td>Marek Charter Communications e ER Comment Status A I" statements were added, but updates to PICS are missing Dawe, Piers medy PICs per hajduczenia_3ca_1_0719.pdf Table title wraps too s SC 45.2.1.23a.2 P 29 L 45 # [74] Ciena Ciena Bucket e E Comment Status A of 45.2.1.23a.2 Downstream Differential Encoding" should be "Downstream Ducket inedy Gf 45.2.1.23a.2 change: "Downstream Differential Encoding" to: "Downstream Cl 45 SC 45.2.1.1 nedy Response Status C C Table 45-103a contai containing PMM/PMD is not not not be shown the exponse status C SC 45.2.1.23a.2 P 29 L 50 # [115] PMA/PMD is not not not be shown the exponse are shown to be shown the exponse are shown to be shown the prown the shown the prown the shown to be charped to the operform as a f SuggestedRemedy In Table 45-103a contai containing PMA/PMD is able 0 = PM</td> <td>Marek Charter Communications e E Comment Status A I" statements were added, but updates to PICS are missing Dawe, Piers medy ICS per hajduczenia_3ca_1_0719.pdf SuggestedRemedy SC 45.2.1.23a.2 P 29 L 45 If [74] SC 45.2.1.23a.2 P 29 L 45 If [74] Ciena bucket Kesponse Status C e E Comment Status A bucket of 45.2.1.23a.2 P 29 L 45 If [74] medy of 45.2.1.23a.2 Downstream Differential Encoding" should be "Downstream bucket nedy of 45.2.1.23a.2 Comment Status A Net encoding" Response Status C C SC 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] SC 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] Me Futurewei Technologies, Inc. bucket<td>Marek Charter Communications e ER Comment Status A " statements were added, but updates to PICS are missing Dawe, Piers Melanox medy "ICS per hajduczenia_3ca_1_0719.pdf Table title wraps too short Response Status C Response Status C Response Status C SC 45.2.1.23a.2 P 29 L 45 # [74] Ciena bucket Fe E Comment Status A C e E Comment Status A bucket Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Table 45-103a contains PMA/PMD "ability" bits use the text: "1 = PMA/PMD is able to perform XXGBASE-XX i encoding" Response Status C Mark to the other PMA/PMD "ability" bits use the text: "1 = PMA/PMD is able to perform XXGBASE</td><td>Marek Charter Communications e E Comment Status A " statements were added, but updates to PICS are missing medy ICS per hajduczenia_3ca_1_0719.pdf Response Status C Response Status C Response Status C 3C 45.2.1.23a.2 P 29 L 45 # [74] Giena bucket Kesponse Status C e E Comment Status A bucket of 45.2.123a.2 P 29 L 45 # [74] Ciena bucket Kesponse Status C Response Status A bucket Ciena recoding" (lower case d and e) Fable 45-103a contains PMA/PMD "ability" bits. All of the other regis containing PMA/PMD "ability" bits. All of the other regis containing PMA/PMD "ability" bits. All of the other regis containing PMA/PMD "ability" bits is clouded to region xXGBASE-xXX SC 45.2.1.23a.2 P 29 L 50 # [115] ready ad "RX PMA" are poorly defined. bucket "1 = PMA/PMD is abile to perform XXGBASE-XXX" r = PMA/PMD is able to perform XXGBASE-XXX.X n table 45-103a contains PMA/PMD "ability" bits in clause 45 These bits are not a complince statement. they are u</td></td>	Marek Charter Communications e ER Comment Status A I" statements were added, but updates to PICS are missing Dawe, Piers medy PICs per hajduczenia_3ca_1_0719.pdf Table title wraps too s SC 45.2.1.23a.2 P 29 L 45 # [74] Ciena Ciena Bucket e E Comment Status A of 45.2.1.23a.2 Downstream Differential Encoding" should be "Downstream Ducket inedy Gf 45.2.1.23a.2 change: "Downstream Differential Encoding" to: "Downstream Cl 45 SC 45.2.1.1 nedy Response Status C C Table 45-103a contai containing PMM/PMD is not not not be shown the exponse status C SC 45.2.1.23a.2 P 29 L 50 # [115] PMA/PMD is not not not be shown the exponse are shown to be shown the exponse are shown to be shown the prown the shown the prown the shown to be charped to the operform as a f SuggestedRemedy In Table 45-103a contai containing PMA/PMD is able 0 = PM	Marek Charter Communications e E Comment Status A I" statements were added, but updates to PICS are missing Dawe, Piers medy ICS per hajduczenia_3ca_1_0719.pdf SuggestedRemedy SC 45.2.1.23a.2 P 29 L 45 If [74] SC 45.2.1.23a.2 P 29 L 45 If [74] Ciena bucket Kesponse Status C e E Comment Status A bucket of 45.2.1.23a.2 P 29 L 45 If [74] medy of 45.2.1.23a.2 Downstream Differential Encoding" should be "Downstream bucket nedy of 45.2.1.23a.2 Comment Status A Net encoding" Response Status C C SC 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] SC 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] C 45.2.1.23a.2 P 29 L 50 If [15] Me Futurewei Technologies, Inc. bucket <td>Marek Charter Communications e ER Comment Status A " statements were added, but updates to PICS are missing Dawe, Piers Melanox medy "ICS per hajduczenia_3ca_1_0719.pdf Table title wraps too short Response Status C Response Status C Response Status C SC 45.2.1.23a.2 P 29 L 45 # [74] Ciena bucket Fe E Comment Status A C e E Comment Status A bucket Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Ciena Ciena Ciena Ciena e Comment Status A bucket Table 45-103a contains PMA/PMD "ability" bits use the text: "1 = PMA/PMD is able to perform XXGBASE-XX i encoding" Response Status C Mark to the other PMA/PMD "ability" bits use the text: "1 = PMA/PMD is able to perform XXGBASE</td> <td>Marek Charter Communications e E Comment Status A " statements were added, but updates to PICS are missing medy ICS per hajduczenia_3ca_1_0719.pdf Response Status C Response Status C Response Status C 3C 45.2.1.23a.2 P 29 L 45 # [74] Giena bucket Kesponse Status C e E Comment Status A bucket of 45.2.123a.2 P 29 L 45 # [74] Ciena bucket Kesponse Status C Response Status A bucket Ciena recoding" (lower case d and e) Fable 45-103a contains PMA/PMD "ability" bits. 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C/ **45** SC **45.2.1.134a**

CI 45 SC 45.2	.2.1.134a	P 31	L 54	# 77		Cl 45	SC 4	45.2.1.18a	a l	P 33	L 36	# 472
Anslow, Pete		Ciena				Brandt, Da	avid		Ro	ockwell Aut	omation	
Comment Type E		ent Status A		<i></i>	bucket	Comment		Е	Comment Stat	tus D		wrong-ballo
When tables split "very thin"	it across pages,	the bottom ruling of	f the table on the	first page shou	ld be	Misspe	•					
SuggestedRemedy						Suggested		•				
Make the bottom	n rulina "verv thin	" for:				0		tiy", To: "a	ability"			
Table 45-103a at Table 45-217a at Table 141-7 at th	t the foot of page t the foot of page	e 31 and page 32 e 43				Proposed I REJEC		se	Response Stati	us Z		
Table 142-5 at th Table 144-4 at th	ne foot of page 1	18 and page 119				This co	omment	t was WIT	HDRAWN by the	commente	er.	
Response ACCEPT IN PRII	Respon	se Status C					•	• •	y" found in the dra t against P803.2c		hat 45.2.1.18 do	es not exist in the
	NGIFLE.					C/ 45	SC 4	45.2.1.18a	ab /	P33	L 43	# 473
C/ 45 SC 45.2	.2.1.134a.9	P 34	L16	# 1		Brandt, Da	avid		Ro	ockwell Aut	omation	
łajduczenia, Marek		Charter Com	munications			Comment	Туре	Е	Comment Stat	tus D		wrong-ballo
comment Type E		ent Status A			bucket	Misspe	elling					-
Make sure that th	he PMD name is	not broken across	lines.			Suaaested	Remed	v				
	he PMD name is	not broken across	lines.			Suggested Chang		•	abilitv"			
SuggestedRemedy Applies to 45.2.1	.134a.9, 45.2.1.	134a.10, 45.2.1.13	4a.11, 45.2.1.134		34a.13,	Chang	e: "abili	tiy", To: "a		uo 7		
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4	1.134a.9, 45.2.1. 45.2.1.134a.15, 4 45.2.1.134a.26, 4	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45	4a.11, 45.2.1.134 .2.1.134a.23,45.2	.1.134a.24,	34a.13,	00	, je: "abili Respon	tiy", To: "a	ability" Response State	us Z		
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.20, 4	1.134a.9, 45.2.1. 45.2.1.134a.15, 4 45.2.1.134a.26, 4 45.2.1.134a.31, 4	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32	4a.11, 45.2.1.134 .2.1.134a.23,45.2	.1.134a.24,	34a.13,	Chang Proposed I REJEC	je: "abili <i>Respon</i> CT.	tiy", To: "a se			ər.	
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SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. C/ 45 SC 45.2	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, 45.2.1.134a.31, Respon	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P 34	4a.11, 45.2.1.134 .2.1.134a.23,45.2 .2.1.134a.28, 45.2	.1.134a.24, 2.1.134a.29,	34a.13,	Chang Proposed I REJEC This co No suc draft - CI 45	je: "abili <i>Respon</i> CT. omment ch spelli is this a <i>SC</i> 4	tiy", To: "a se t was WIT ing "abilitiy	Response State HDRAWN by the y" found in the dra t against P803.2c	e commente aft. Given t ca? P 38		es not exist in the # <mark>78</mark>
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. C/ 45 SC 45.2	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100,	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P 34	4a.11, 45.2.1.134 .2.1.134a.23,45.2 .2.1.134a.28, 45.2 <i>L</i> 16	.1.134a.24, 2.1.134a.29,	34a.13,	Chang Proposed I REJEC This co No suc draft - C/ 45 Anslow, Pe	ie: "abili Respon CT. omment ch spelli is this a SC 4 ete	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3	Response State HDRAWN by the y" found in the dra t against P803.2c	e commente aft. Given t ca? P 38 ena	hat 45.2.1.18 do	# 78
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. C/ 45 SC 45.2	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45.2.100, 45	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C <i>P</i> 34 Futurewei Ter ent Status A	4a.11, 45.2.1.134 .2.1.134a.23,45.2 .2.1.134a.28, 45.2 <i>L</i> 16	.1.134a.24, 2.1.134a.29,		Chang Proposed I REJEC This co No suc draft - C/ 45 Anslow, Pe Comment	ie: "abili Respon CT. ch spelli is this a SC 4 ete Type	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E	Response State HDRAWN by the y" found in the dra t against P803.2c Cir Comment Stat	e commente aft. Given t ca? P 38 ena tus A	hat 45.2.1.18 do	# <mark>78</mark> bucke
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. C/ 45 SC 45.2 Remein, Duane Comment Type E PMA/PMD name SuggestedRemedy	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, 7 45.2.1.134a.31, 7 <i>Respon</i> 2.1.134a.9 E Comm e crosses the line	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C <i>P</i> 34 Futurewei Ter ent Status A	4a.11, 45.2.1.134 .2.1.134a.23,45.2 .2.1.134a.28, 45.2 <i>L</i> 16 chnologies, Inc.	.1.134a.24, 2.1.134a.29, # <u>116</u>		Chang Proposed I REJEC This co No suc draft - C/ 45 Anslow, Pe Comment In the p be a co	e: "abili Respon CT. omment ch spelli is this a SC 4 ete Type new nar omma ii	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E mes for re n "PR10G	Response State HDRAWN by the y" found in the dra t against P803.2c Cir Comment Stat	e commente aft. Given t ca? P 38 ena tus A 7 and 3.78, 5GEPON"	hat 45.2.1.18 do	# 78
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. Cl 45 SC 45.2 Remein, Duane Comment Type E PMA/PMD name SuggestedRemedy Change the chara following location	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, <i>Respon</i> 2.1.134a.9 E <i>Comm</i> e crosses the line crosses the line fracter format so the so t	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P34 Futurewei Ter ent Status A hat the line is not b 6, 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 PMI '34, 34/40, 34/46,	.1.134a.24, 2.1.134a.29, # <u>116</u> D name at the 34/52, 35/4, 33	bucket 5/46,	Chang Proposed I REJEC This co No suc draft - C/ 45 Anslow, Pe Comment In the p be a co This is	e: "abili Respon CT. omment ch spelli is this a SC 4 ete Type new nar omma ir s shown	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E mes for re n "PR10G correctly i	Response State HDRAWN by the off found in the dra t against P803.2c Cite Comment Stat gisters 3.76, 3.77 -EPON, and Nx23	e commente aft. Given t ca? P 38 ena tus A 7 and 3.78, 5GEPON"	hat 45.2.1.18 do	# <mark>78</mark> bucke
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. C/ 45 SC 45.2 Remein, Duane Comment Type E PMA/PMD name SuggestedRemedy Change the chara following location 35/52, 36/4, 36/1 others found.	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, <i>Respon</i> 2.1.134a.9 E <i>Comm</i> e crosses the line e crosses the line facter format so the ns (pg/line): 34/11 10, 36/16, 36/22,	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P 34 Futurewei Ter <i>ent Status</i> A 5. hat the line is not b 6, 34/22, 3428, 34/ 36/28, 36/34, 36/4	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 PMI '34, 34/40, 34/46,	.1.134a.24, 2.1.134a.29, # <u>116</u> D name at the 34/52, 35/4, 33	bucket 5/46,	Chang Proposed I REJEC This co No suc draft - CI 45 Anslow, Pe Comment In the p be a co This is Suggested In the p	ie: "abili Respon CT. omment ch spelli is this a SC 4 ete Type new nar omma ir s shown <i>IRemed</i> new nar	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E mes for re- n "PR10G correctly i <i>y</i> mes for re-	Response State HDRAWN by the '" found in the dra t against P803.2c Cia Comment Stat gisters 3.76, 3.77 -EPON, and Nx2 in 45.2.3.41 and gisters 3.76, 3.77	e commente aft. Given t ca? P 38 ena <i>tus</i> A 7 and 3.78, 5GEPON" 45.2.3.42 7 and 3.78,	hat 45.2.1.18 do <i>L</i> 12 3.79 in Table 45 3.79 in Table 45	# 7 <u>8</u> <i>bucke</i> 5-176, there shouldn't
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. Cl 45 SC 45.2 Remein, Duane Comment Type E PMA/PMD name SuggestedRemedy Change the chara following location 35/52, 36/4, 36/1 others found. Response	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, <i>Respon</i> 2.1.134a.9 E <i>Comm</i> e crosses the line e crosses the line facter format so the ns (pg/line): 34/11 10, 36/16, 36/22,	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P34 Futurewei Ter ent Status A hat the line is not b 6, 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 PMI '34, 34/40, 34/46,	.1.134a.24, 2.1.134a.29, # <u>116</u> D name at the 34/52, 35/4, 33	bucket 5/46,	Chang Proposed I REJEC This co No suc draft - Cl 45 Anslow, Pe Comment In the i be a co This is Suggested In the i	ie: "abili Respon- CT. omment ch spelli is this a SC 4 ete Type new nar shown iRemed new nar a in "PR	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E mes for re- n "PR10G correctly i <i>y</i> mes for re-	Response State HDRAWN by the y" found in the dra t against P803.2c Comment Stat gisters 3.76, 3.77 -EPON, and Nx25 in 45.2.3.41 and 4 gisters 3.76, 3.77 DN, and Nx25GEF	e commente aft. Given t ca? P 38 ena tus A 7 and 3.78, 5GEPON" 45.2.3.42 7 and 3.78, PON" (2 ins	hat 45.2.1.18 do <i>L</i> 12 3.79 in Table 45 3.79 in Table 45	# 7 <u>8</u> <i>bucke</i> 5-176, there shouldn't
SuggestedRemedy Applies to 45.2.1 45.2.1.134a.14, 4 45.2.1.134a.25, 4 45.2.1.134a.30, 4 Response ACCEPT. Cl 45 SC 45.2 Remein, Duane Comment Type E PMA/PMD name SuggestedRemedy Change the chara following location 35/52, 36/4, 36/1	1.134a.9, 45.2.1. 45.2.1.134a.15, 45.2.1.134a.26, 45.2.1.134a.31, <i>Respon</i> 2.1.134a.9 E <i>Comm</i> e crosses the line e crosses the line facter format so the ns (pg/line): 34/11 10, 36/16, 36/22,	134a.10, 45.2.1.13 45.2.1.134a.16, 45 45.2.1.134a.27, 45 45.2.1.134a.32 se Status C P 34 Futurewei Ter <i>ent Status</i> A 5. hat the line is not b 6, 34/22, 3428, 34/ 36/28, 36/34, 36/4	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 PMI '34, 34/40, 34/46,	.1.134a.24, 2.1.134a.29, # <u>116</u> D name at the 34/52, 35/4, 33	bucket 5/46,	Chang Proposed I REJEC This co No suc draft - CI 45 Anslow, Pe Comment In the p be a co This is Suggested In the p	e: "abili Respon- CT. omment ch spelli is this a SC 4 ete Type new nar omma ii s shown iRemed new nar a in "PR	tiy", To: "a se t was WIT ing "abilitiy a comment 45.2.3 E mes for re- n "PR10G correctly i <i>y</i> mes for re-	Response State HDRAWN by the '" found in the dra t against P803.2c Cia Comment Stat gisters 3.76, 3.77 -EPON, and Nx2 in 45.2.3.41 and gisters 3.76, 3.77	e commente aft. Given t ca? P 38 ena tus A 7 and 3.78, 5GEPON" 45.2.3.42 7 and 3.78, PON" (2 ins	hat 45.2.1.18 do <i>L</i> 12 3.79 in Table 45 3.79 in Table 45	# 7 <u>8</u> <i>bucke</i> 5-176, there shouldn't

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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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
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 8/4/2019 8:18:17 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
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 8/4/2019 8:18:17 AM

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C/ 45 SC 4	5.2.3	P 38	L17	# 79	C/ 4	s sc	\$ 45.2.3.6.1	P 39	L 41	# 80
Anslow, Pete		Ciena			Ansl	ow, Pete		Ciena		
Comment Type	E Comment	Status A		k	oucket Com	ment Type	т	Comment Status A		45.2.3.6.
through 3.134 SuggestedRemedy In table 45-176	PON synchronization p / 6 change "3.83 through 1 row change "3.136 th	h 3.135" to "3.83	3 through 3.134"	-	C F i	8.8.7:0, and PCS types in The PCS ty gnore writes	3.9.5:0. A P t has not adv pe abilities o s to the PCS	he PCS type abilities of the CS shall ignore writes to vertised in the PCS status of the PCS are advertised type selection bits that super or the PCS status 3 reg	the PCS type sele 2 register." is not in bits 3.8.9:0, an elect PCS types it	ction bits that select correct. It should read: d 3.9.7:0. A PCS shall
Response	Response	Status C			Sugg	estedReme	edy			
ACCEPT.								third sentence of 45.2.3.6		
C/ 45 SC 4	5.2.3	P 39	L 3	# 61				8.9 <u>:0</u> <s>, 3.8.7:0, to the PCS type selection</s>		
Zimmerman, Georg	ge	CME Consult	ing/ADI, APL Gp,	Aquantia, BMW,	Cisc	dvertised ir		atus 2 register <u> or the</u>		
Comment Type	E Comment	Status A		t		Vhere: <u> and <!--ι</td--><td>u> are the st</td><td>art and end of underline f</td><td>ont</td><td></td></u>	u> are the st	art and end of underline f	ont	
Editing instruct	tion needs to include 8	302.3cg which a	lso modified Tabl	e 45-176.		<s> and <td>s> are the sta</td><td>art and end of strikethroug</td><td>gh font</td><td></td></s>	s> are the sta	art and end of strikethroug	gh font	
SuggestedRemedy	/				Resp	onse		Response Status C		
	dified by IEEE Std 80				ŀ	CCEPT.				
-	EE Std 802.3cb-2018,		cd, and IEEE 802.	3cg-201x)	C/ 4	5 SC	\$ 45.2.3.8	P 40	L 8	# 81
Response ACCEPT.	Response	Status C			Ansl	ow, Pete		Ciena		
ACCEPT.					Com	ment Type	Е	Comment Status A		bucke
C/ 45 SC 4	5.2.3.6.1	P 39	L 40	# 117		n Table 45-	182, row for	bit 3.9.7, "apable" should	be "capable"	
Remein, Duane		Futurewei Te	chnologies, Inc.		Sugg	estedReme	edy			
Remein, Duane	TD Commont	Status A		45.2	2.3.6.1 I	n Table 45-	182, row for	bit 3.9.7, change "apable	" to "capable"	
Comment Type					-			Response Status C		
Comment Type	.9.0 to 3.9.7 appear to	all advertise P	CS type abilities.		Resp	onse		•••••••••••••••••••••••••••••••••••••••		
Comment Type Register bits 3. SuggestedRemedy	.9.0 to 3.9.7 appear to	all advertise P	CS type abilities.			onse CCEPT.		•		
Comment Type Register bits 3. SuggestedRemedy Change: "bits 3.8.9, 3.8. "bits 3.8.9, 3.8.	.9.0 to 3.9.7 appear to		CS type adhittes.		., , , , , , , , , , , , , , , , , , ,	CCEPT.	\$ 45.2.3.43	P 41 Ciena	L 39	# 84
Comment Type Register bits 3. SuggestedRemedy Change: "bits 3.8.9, 3.8. "bits 3.8.9, 3.8.	.9.0 to 3.9.7 appear to .7:0, and 3.9.15:0." to .7:0, and 3.9.17:0."	text.	CS type addities.		CI 4 Ansl Com	CCEPT. S SC ow, Pete ment Type	E	P 41 Ciena Comment Status A	L 39	# 84 bucke
Comment Type Register bits 3. SuggestedRemedy Change: "bits 3.8.9, 3.8. "bits 3.8.9, 3.8. Note the "1" in	.9.0 to 3.9.7 appear to 7.7:0, and 3.9.15:0." to .7:0, and 3.9.17:0." 3.9.1x is in strike-out <i>Response</i> 3	text.	CS type admittes.		CI 4 Ansl Com	CCEPT. S SC ow, Pete ment Type	E	P 41 Ciena	L 39	
Comment Type Register bits 3. SuggestedRemedy Change: "bits 3.8.9, 3.8. "bits 3.8.9, 3.8. Note the "1" in Response	.9.0 to 3.9.7 appear to .7:0, and 3.9.15:0." to .7:0, and 3.9.17:0." 3.9.1x is in strike-out <i>Response</i> 3 RINCIPLE.	text.	CS type admittes.		CI 4 CI 4 Ansl Com Sugg	CCEPT. 5 SC ow, Pete ment Type update" is r estedReme	E not a valid eo	P 41 Ciena Comment Status 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

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CI 45	SC 45.2.	3.43	P 41	L 41	# 85	C/ 45	SC	45.2.3.43	P 42	L 2	# 86
Anslow, Pe	ete		Ciena			Anslow, I	Pete		Ciena		
Comment T	Туре Е	Con	nment Status A		bucket	Commen	t Type	Е	Comment Status A		buck
interval Note th	l) is not refle	cted in Tab	oposes to move the i	0	ι υ		valent is	sues in 45.2	orest green. "142.3.5.6" sh 2.3.44.1 and 45.2.3.45	ould be a cross-	reference.
Suggested								xt and apply 45.2.3.43	/ character tag "External" t	o:	
After m	noving the ro		er 3.80 from Table 4 register name using		176, reflect the change trikethrough.	"76.3	3.3.4" in	45.2.3.43 45.2.3.44.1 45.2.3.45			
Response		Resp	oonse Status C					-reference: 45.2.3.43			
ACCEF	PT.					"142.	.3.5.2" ir	45.2.3.44 45.2.3.44. 45.2.3.45	1		
Cl 45	SC 45.2.	3.43	P 41	L 44	# 62	Response	е		Response Status C		
Zimmerma	n, George		CME Consul	ting/ADI, APL G	p, Aquantia, BMW, Cisc	ACCI	EPT.				
Comment 7			nment Status A		bucket				D · · ·		
The for	nt of "and" a	nd "and Nx	25G EPON" is smalle	er than the rest o	of the text.	C/ 45		45.2.3.43	P 42	L 5	# 328
Suggested fix font	<i>Remedy</i> of "and", ar	d "an Nx25	G EPON"			Laubach, Commen		Е	Broadcom Comment Status A		buck
Response		Rest	oonse Status C			unde	rline of v	word stoppe	ed short		
ACCEF	PT.					Suggeste			nclude the last letter in "int	erval"	
CI 45	SC 45.2.	3.43	P 41	L 44	# 492	Response			Response Status C		
Brandt, Da Comment T		Cor	Rockwell Au	tomation	post-deadline; bucket	ACC			Response Status C		
	istent font s					C/ 45	SC	45.2.3.44	P 42	L 25	# 87
Suggested	Remedy					Anslow, I	Pete		Ciena		
Make f	onts the sar	ne size.				Commen	t Type	Е	Comment Status A		buck
Response	T	Resp	oonse Status C			,	d Nx25G ad of be		s been inserted after "BEF	" in the first sen	tence of 45.2.3.44
ACCEF	-1.					Suggeste	edReme	dy			
									and Nx25G EPON" before GBASE-PRX, and Nx25G I		
						Response	е		Response Status C		

C/ **45** SC **45.2.3.44** Page 14 of 103 8/4/2019 8:18:17 AM

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C/ 45	SC 45.2.3.44.1	P 42	L 49	# 88	C/ 45	SC 4	45.2.3.45a	P 43	L 47	# 118
Anslow, F	Pete	Ciena			Remein,	Duane		Futurewei Te	chnologies, Inc.	
Comment	Туре Е	Comment Status A		bucket	Commen	t Type	TR	Comment Status A		Table 45-217a
In the	first sentence of 45.	2.3.44.1, there is a spurio	us " BER" after '	'10/1GBASE-PRX"	Table	e 217a is	missing a d	lefinition for register bits 3.	.83.6:15	
Suggeste	dRemedy				Suggeste	dRemed	<i>y</i>			
In the	first sentence of 45.	2.3.44.1, delete " BER" af	ter "10/1GBASE	-PRX"			w of table:			
Response	e l	Response Status C						lue always 0 RO		
ACCE	EPT.				Respons			Response Status W		
CI 45	SC 45.2.3.44.2	P 43	L 4	# 89	ACC	=PT.				
Anslow, F		Ciena	<i>L</i> 4	π 09	C/ 45	SC 4	45.2.3.45a	P 43	L 47	# 448
Comment		Comment Status A		bucket	Nicholl, S	Shawn		Xilinx		-
In the	the insertion of ", and P	2.3.44.1, delete " BER" af I Nx25G EPON" Response Status C	iter "10/1GBASE		abbre Suggeste Repla mere Respons	eviations d <i>Remed</i> ace SP1 ly a sugg e	aide the gen y with SPTN1 jestion, any	throughout the document other unique acronymn wo Response Status C	h-ability of the s	tandard.
C/ 45	SC 45.2.3.45a	P 43	L 43	# 307	REJE	CT.				
Lynskey,	Eric	Broadcom						tently. There are many oth		overlaping acronyms
Comment	51	Comment Status A			that o	lo not ca	use confusio	on, when read within the ri	ght context.	
variet the lo	y of ways that data is wer bytes are stored	57-bit sync pattern values s stored in a register when in lower numbered regist	it is greater tha ers (Table 45-24	n 16-bits. Sometimes 2), and sometimes the				1, SP2, and SP3 are alrea in C73 and Skew Points in		esent two very different
	,	202). The order of the by	tes should be st	ated in this table.	C/ 45	SC 4	45.2.3.45a	P 43	L 47	# 119
00	dRemedy				Remein,	Duane		Futurewei Te	chnologies, Inc.	
		hange to "The lower 256 99.15." Similar for SP2 ar			Commen	t Type	Е	Comment Status A		bucket
		the text descriptions that			•		n Cl 45 table	es are typically listed from	high bit to low b	it and low register to
Response	e f	Response Status C			0	register.				
					C	10				

Response

ACCEPT.

SuggestedRemedy

ACCEPT.

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

Response Status C Response

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

C/ 45 SC 45.2.3.45a

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C/ 45 SC 45.2	3.45a	P 43	L 47	# 90	C/ 45	SC 4	5.2.3.80.2	P 49	L 31	# 474
Anslow, Pete		Ciena			Brandt, D	avid		Rockwell Au	tomation	
Comment Type ER		nt Status A	vs have bit 15 at t	<i>Table 45-217a</i> he top and descending	Comment	t <i>Type</i> cate text	E	Comment Status D		wrong-ballot
bit numbers below Ranges of bits with bits within a regist	nin a register are	shown as x.x.a	b where a is high		Suggeste	dRemedy		letecting", To: "is detecting	ר"	
SuggestedRemedy		localed are show	in as reserved.		Proposed	-	•	Response Status Z	9	
Change the order 3.83.15:6 Reserv			bit designations	as follows:	REJE	'				
3.83.5 3.83.4		·			This o	comment	was WITH	IDRAWN by the comment	er.	
3.83.3 3.83.2						not locat st P803.2		that 45.2.3.80.2 does not	exist in the draft	- is this a comment
3.83.1 3.83.0					C/ 45	SC 4	5.2.3.80.4	P 49	L 47	# 475
3.99.15 through 3 3.100.15:0	.84.0				Brandt, D	avid		Rockwell Au	tomation	
3.116.15 through 3.117.15:0	3.101.0				Comment		E non latebo	Comment Status D d source is wrong.		wrong-ballo
3.133.15 through 3	3.118.0					•		a source is wrong.		
3.134.15:0					Suggeste			R status bit (3.2324.9)."		
Response ACCEPT.	Response	e Status C						tatus bit (3.2324.9)."		
ACCELL.					Proposed	l Respons	se	Response Status Z		
45 SC 45.2	3.45a	P 44	L10	# 120	REJE	CT.				
Remein, Duane		Futurewei Te	echnologies, Inc.		This o	comment	was WITH	IDRAWN by the comment	er.	
Comment Type TR		nt Status A							and a the street	to determine the
Backwards the bit	s are in "3.1xx.0	:15"				st P803.2		that 45.2.3.80.4 does not	exist in the draft	- is this a comment
SuggestedRemedy					C/ 45		5.2.3.8aa	P40	L 25	# 82
In 45.2.3.45a.x Cl 3.100.0:15 to 3.10)			Anslow, F		J.2.J.0da	Ciena	L Z J	π 02
3.117.0:15 to 3.11	7.15:0 (4x total)	,			Comment		Е	Comment Status A		bucke
3.134.0:15 to 3.13	,						_	or 45.2.3.8aa through 45.2	2.3.11ad should	
lesponse	Response	e Status W						iting instruction.		
ACCEPT.					Suggeste	dRemedy	/			
Hardly a TR comm	ent material							bering for 45.2.3.8aa thro iting instruction.	ugh 45.2.3.11ad	to 45.2.3.8.aa through
					Response	9		Response Status C		
					ACCE	EDT				

 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 45.2.3.8aa
 8/4/2019 8:18:17 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 45.2.3.8aa
 S/4/2019 8:18:17 AM

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CI 45	SC 45.2.3.8aa	a P 40	L 28	# 83	CI 56	SC 56.1	P 47	L 3	# 400
Anslow, Pe	te	Ciena			Dawe, Pie	ers	Mellanox		
Comment T	ype E	Comment Status A		bucket	Comment	Type E	Comment Status A		
At the e PCS typ		aph "the 25GBASE-PQ PCS	type" should be	e "the 25/25GBASE-PQ	Rogue	e capitals			
SuggestedF					Suggestee	,			
At the e	end of the paragr	aph change "the 25GBASE-	PQ PCS type" to	o "the 25/25GBASE-PQ	Unles "OLT	s these are pro control plane" a	per nouns, change "OLT Contro and "OLT data plane" and simila	ol Plane" and "C arly for ONU. S	DLT Data Plane" to everal occurrences.
PCS typ	be"				Response		Response Status C		
Response	_	Response Status C			ACCE	PT IN PRINCI	PLE.		
ACCEP					See c	omment #399			
C/ 56	SC 56.1	P 47	L 1	# 91	C/ 56	SC 56.1	P 47	L 3	# 399
Anslow, Pe		Ciena			Dawe, Pie	ers	Mellanox		
Comment T		Comment Status A		bucket	Comment		Comment Status A		
0		have a border round them.				51	ntrol Plane", "Data Plane"		
SuggestedF					Suggestee	Remedy			
	e the border from	0			Explai	-			
Response		Response Status C			Response		Response Status C		
ACCEP	'Т.					PT IN PRINCI			
CI 56	SC 56.1	P 47	L1	# 395		-			
Dawe, Piers	5	Mellanox					of "Control Plane" to ", and "Data Plane" to "MAC C	lianta"	
Comment T		Comment Status A		bucket	MAC	Control Clients	, and Data Plane to MAC C	lients	
		le Manual, there should be r	no borders arour		C/ 56	SC 56.1.2	P 46	L 32	# 394
	match figs 56-2			3 1 1 1	Dawe, Pie	ers	Mellanox		
SuggestedF	Remedy				Comment	Type E	Comment Status A		bucke
Remove	e the black box r	ound the figure and its title.			PON	with the nomina	I MAC data		
Response		Response Status C			Suggestee	dRemedy			
ACCEP	Т.				PON	with a nominal	MAC data (several places)		
					Response		Response Status C		
					ACCE		,		

C/ 56 SC 56.1.2

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CI 56	SC	56.1.2	P 46	L 38	# 378	CI 56	SC 56.1.2	P 47	L1	# <u>283</u>
Dawe, Pie	ers		Mellanox			Wienckow	vski, Natalie	General Motor	S	
Comment	Туре	TR	Comment Status R			Comment	Type E	Comment Status A		bucket
142-5) 257b i) or 1-1/ recoding	0.848 = 1 g, that's ar	os the 25.78125 GBd line ra 7.9% (142.2.4.2) overhead. 0.001 21.4 Gb/s MAC rate, v	Even after recla	iming about 3% by	Why i Figure Suggestee	es and this is not	ound Figure 56-5a? There is n they style found in other Claus	ot a box around ses.	d the other Clause 56
-		e of 25 Gb	//S".			••	ve box around F	igure 56-5a.		
Suggestee						Response		Response Status C		
			ames with 25G in them is fan his part of the draft text is m		represents the	ACCE		Nesponse otatas C		
In this	paragra	aph, chan	ge "25 Gb/s" to "21.4 Gb/s"	and "50 Gb/2" to	"42.8 Gb/s".	C/ 56	SC 56.1.2	P 47	L 19	# 397
Response)		Response Status W			Dawe, Pie	ers	Mellanox		
REJE	CT.					Comment	Туре Т	Comment Status A		
The n	ominal		ly MAC transmits bits, i.e.,	what the resulting	n hit time is) MAC rate	"PCS	channel" is new	, may need more introduction.		
			fective MAC rate (how man			Suggestee	dRemedy			
			ected by FEC overhead, just			Are th	ere two indepen	dent, parallel PCSs or are they	linked (how)?	
25Gb/		g. MAC do	es not always transmit data	i, but when it doe	es, it transmits it at	Response	,	Response Status C		
CI 56	SC	56.1.2	P 46	L 52	# 396	ACCE	PT IN PRINCIP	LE.		
Dawe, Pie			Mellanox				ge "PCS channe	l" to "channel" IA channel" to "PMA channel"		
Comment		т	Comment Status R				-			
chann	iel - has	multiple r	neanings already - you are i	introducing a nev	v thing	CI 56	SC 56.1.2	P 47	L 52	# 255
Suggestee	dRemec	ły				D'Ambros	ia, John	Futurewei, U.S	Subsidiary o	f Huawei
			avelength" (or maybe "MCF be changed to "wavelength		eral times. "PCS and	Comment	51	Comment Status A		bucke
		can also	5 5	· .		The a	rchitectural diag ams inIEEE 802.	ram has a border box around it	. Not consiste	nt with other Clause 56
Response REJE			Response Status C			•		5		
REJE	01.					Suggestee	e border box			
			ent to "Wavelength". Chanr							
define wavel projec funda	ed for dif ength in t to maj mental t tion is co	ferent coe a differer p multiple to the spec	are of wavelengths. There a xistence classes, and each t coexistence class (see 14 channels into a single wave cifications in Clause 143. It .3ca only. The term "wavele	channel may ma 1.2.3). It is possi length. The term is very precisely	ap to a different ble in some future "channel" is defined and that	Response ACCE		Response Status C		

C/ 56 SC 56.1.2

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CI 56 SC 5	56.1.2	P 47	L 52	# 256		C/ 56	SC 56.1	.3	P 48	L 38	# 92
D'Ambrosia, John	า	Futurewei, U.	S. Subsidiary of	f Huawei		Anslow, P	ete		Ciena		
Comment Type	Е	Comment Status A			bucket	Comment	Туре Е	Cor	mment Status A		bucke
Title of diagran See also Fig 1 See also Fig 1 See also Fig 1 See also Fig 1	141-1, p56 142-1, p.104 143-17, p 17	73	grams in Clause	e 56 of 802.3		shown Suggested	n. dRemedy		lude the project name		e rows of the table are Table 56-1 (below
SuggestedRemedy						10GP/	ASS-XR-U e	entry), as foll	lows (unchanged row	/s not shown):	
,	of diagram -	Figure 56–4—Architectural architecture	positioning of E	EFM:		Response ACCE		Res	ponse Status C		
Response		Response Status C				C/ 56	SC 56.1	.3	P 48	L 46	# 93
ACCEPT IN PI	PRINCIPLE.					Anslow, P	ete		Ciena		
Change title to	o read Figur	re 56–5a—Architectural pos	sitioning of EFM	1:		Comment	Туре Е	Cor	mment Status A		bucke
P2MP Nx25G-	6-EPON ard	P 47	L 52	# 257		As the	editing inst		6-1 (containing ellipsi nsert", the inserted ro		
C/ 56 SC 5	56.1.2	P 47	-			As the Suggested	e editing inst dRemedy	ruction is "Ir	nsert", the inserted ro	ws should not be	e underlined.
C/ 56 SC 5 D'Ambrosia, John	56.1.2 າ	P 47	L 52 S. Subsidiary of			As the Suggested Move	e editing inst dRemedy the first row	ruction is "Ir	nsert", the inserted ro	ws should not be	
Cl 56 SC 5 D'Ambrosia, John Comment Type Diagram not di Example- the v is drawn	56.1.2 n E drawn in cor vertial 25GI	P 47 Futurewei, U.	S. Subsidiary of similar diagrams	f Huawei s in Clause 56.	nterface	As the Suggested Move	e editing inst dRemedy the first row ed rows.	ruction is "Ir of Table 56	nsert", the inserted ro	ws should not be	e underlined.
2/ 56 SC 5 D'Ambrosia, John Comment Type Diagram not di Example- the v	56.1.2 T E drawn in cor vertial 25Gl 141-1, p56	P 47 Futurewei, U. Comment Status R nsistent manner with other s MII text inside the diagram-	S. Subsidiary of similar diagrams	f Huawei s in Clause 56.	nterface	As the Suggested Move inserte Response	e editing inst dRemedy the first row ed rows.	ruction is "Ir of Table 56 <i>Res</i> j	nsert", the inserted ro 6-1 on to the next page	ws should not be	e underlined.
7 56 SC 5 D'Ambrosia, John Comment Type Diagram not di Example- the v is drawn See also Fig 1 See also Fig 1 See also Fig 1	56.1.2 E drawn in cor vertial 25Gl 141-1, p56 142-1, p.104 143-17, p 17	P 47 Futurewei, U. Comment Status R nsistent manner with other s MII text inside the diagram- 4 73	S. Subsidiary of similar diagrams	f Huawei s in Clause 56.	nterface	As the Suggested Move inserte Response ACCE	e editing inst dRemedy the first row ed rows. PT. SC 56.1	ruction is "Ir of Table 56 <i>Res</i> j	nsert", the inserted ro 6-1 on to the next page ponse Status C	ws should not be	e underlined.
Cl 56 SC 5 D'Ambrosia, John Comment Type Diagram not dr Example- the v is drawn See also Fig 1 See also Fig 1 See also Fig 1 See also Fig 1	56.1.2 E drawn in cor vertial 25Gl 141-1, p56 142-1, p.104 143-17, p.17 144-2 P.182	P 47 Futurewei, U. Comment Status R nsistent manner with other s MII text inside the diagram- 4 73	S. Subsidiary of similar diagrams	f Huawei s in Clause 56.	nterface	As the Suggestec Move inserte Response ACCE	e editing inst dRemedy the first row ed rows. SPT. SC 56.1	ruction is "Ir of Table 56 <i>Res</i> i 3	nsert", the inserted ro i-1 on to the next page ponse Status C P 50	ws should not be	e underlined.
Cl 56 SC 5 D'Ambrosia, John Comment Type Diagram not dr Example- the v is drawn See also Fig 1 See also Fig 1	56.1.2 E drawn in cor vertial 25GI 141-1, p56 142-1, p.104 143-17, p.17 144-2 P.182 dy	P 47 Futurewei, U. Comment Status R nsistent manner with other s MII text inside the diagram- 4 73	S. Subsidiary of similar diagrams as well as how	f Huawei s in Clause 56.	nterface	As the Suggested Move inserte Response ACCE C/ 56 Anslow, P Comment Editing	e editing inst dRemedy the first row ed rows. PT. SC 56.1 rete Type E g instruction	ruction is "Ir of Table 56 <i>Resp</i> .3 <i>Cor</i> s use the te	nsert", the inserted ro 5-1 on to the next page ponse Status C P 50 Ciena	ws should not be e and remove the <i>L</i> 21 r than "statemen	e underlined. e underlining from the # <u>94</u> <i>bucke</i> t".
Cl 56 SC 5 D'Ambrosia, John Comment Type Diagram not dr Example- the v is drawn See also Fig 1 See also Fig 1	56.1.2 E drawn in cor vertial 25GI 141-1, p56 142-1, p.104 143-17, p 17 144-2 P 182 dy to be consis	P 47 Futurewei, U. Comment Status R nsistent manner with other s MII text inside the diagram-	S. Subsidiary of similar diagrams as well as how	f Huawei s in Clause 56.	nterface	As the Suggested Move inserte Response ACCE C/ 56 Anslow, P Comment Editing	e editing inst dRemedy the first row ed rows. PT. SC 56.1 SC 56.1 ete Type E g instruction nsert" editin	ruction is "Ir of Table 56 <i>Resp</i> .3 <i>Cor</i> s use the te	nsert", the inserted ro 6-1 on to the next page ponse Status C P 50 Ciena mment Status A rrm "paragraph" rathe	ws should not be e and remove the <i>L</i> 21 r than "statemen	e underlined. e underlining from the # <u>94</u> <i>bucke</i> t".
2/ 56 SC 5 D'Ambrosia, John Comment Type Diagram not di Example- the v is drawn See also Fig 1 See also Fig 1 See also Fig 1 See also Fig 1 See also Fig 1 SuggestedRemedy redraw figure to Response REJECT.	56.1.2 E drawn in cor vertial 25GI 141-1, p56 142-1, p.104 143-17, p.17 144-2 P 182 dy to be consis	P 47 Futurewei, U.3 Comment Status R nsistent manner with other s MII text inside the diagram- 4 73 2 stent with 56-1, 56-2, 56-3,	S. Subsidiary of similar diagrams as well as how 56-4.	f Huawei s in Clause 56.	nterface	As the Suggested Move inserte Response ACCE C/ 56 Anslow, P Comment Editing The "I Suggested In the	e editing inst dRemedy the first row ed rows. PT. SC 56.1 SC 56.1 Type E g instruction nsert" editin dRemedy editing instr	ruction is "Ir of Table 56 <i>Res;</i> .3 <i>Cor</i> s use the te g instruction uction, chan	nsert", the inserted ro 6-1 on to the next page ponse Status C P 50 Ciena mment Status A rrm "paragraph" rathe	ws should not be e and remove the <i>L</i> 21 r than "statemen ine to indicate ins	# underlined. e underlining from the # <u>94</u> <i>bucke</i> t". sertion.

C/ 56 SC 56.1.3

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CI 56	SC 56.1.3	P 50	L 25	# 398	C/ 67	SC 67	P 55	L1	# 326
Dawe, Pie	ers	Mellanox			Laubach, M	Mark	Broadcom		
Comment	Туре Т	Comment Status A			Comment	Type TR	Comment Status A		
You ca	an't make a PON	I with a single PMD type. Also	o, there are option	ons.	Draft is	s missing upo	lates to Clause 67 for Syster	n considerations for	Ethernet subscriber
Suggested	Remedy					networks			
	ge "All these syst y PMDs defined	tems employ a PMD defined ir in Clause 141."	n Clause 141." te	o "All these systems	•		as per laubach_3ca_1_0719	pdf to add entries fo	r the P802.3ca media
Response		Response Status C			types.				
ACCE	PT.				Response		Response Status C		
01 50	00 50 4 0		10	# 407	ACCEI	PT IN PRINC	CIPLE.		
CI 56	SC 56.1.3	P 51	L 6	# 427	As pro	posed, but ra	ther with the following chang	es:	
Dawe, Pie		Mellanox				0" to "50 Gb			
Comment	Type ER	Comment Status R)0" to "25 Gb)0" to "10 Gb	-		
new or Suggested	ne right. <i>IRemedy</i>	ith the eccentric order of some				Change all " ingly as well. SC 141	1000" and "10000" entries to	"Gb/s multiples. Upo	dates notes # 121
		141-144: MPMC then MCRS							# 121
	n numerical orde	existing columns in Table 56-		tiom - they don't have	Remein, D			Technologies, Inc.	
Response		Response Status W			Comment		Comment Status A		buc
REJEC						stomary to in ate v3.9.	clude an editing Instruction p	rior to new clauses a	as noted in the WG
The cla	ause order follow	vs the clause order used by P2	2MP projects be	fore.	Suggested	Remedy			
	SC 56.1.3	P 54	L 5	# 284		pefore Claus new clauses	e 141 and corresponding annexes	as follows:"	
CI 56					-				
	/ski, Natalie	General Motor	S		Response		Response Status C		
Wienckow Comment	Туре Т	General Motor <i>Comment Status</i> A ved from Table 56-3 but wasn'	-	56-4.	Response ACCEI	PT.	Response Status C		
Comment Clause Suggested	<i>Type</i> T e 100 was remov	Comment Status A ved from Table 56-3 but wasn'	-	56-4.	•	PT.	Response Status C		

C/ 141 SC 141

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2/ 141	SC 141.1.2	P 56	L 1	# 17	C/ 141	SC 141.1.3	P 55	L 31	# 356
lajduczenia	a, Marek	Charter Co	ommunications		Dudek, Mi	ike	Marvell		
Comment Ty	/pe TR	Comment Status A			Comment	Туре Т	Comment Status	4	
•		25G-EPON and not EPO	N.				W0 +DW1 for the 50G I table 141-3 etc. it is not		
uggestedR	•				Suggested	•			3
Also, we support	e need to show	25G-EPON" in caption. XGMII in there as an opti- de of operation with 10G		U, since we also	Add a wavel	sentence at the	e end of the paragraph (a nultiplexing on two wavel		supporting 50Gb/s use two wavelengths are listed
Response		Response Status C			Response	•	Response Status	2	
ACCEP	T IN PRINCIPL	E.			•	PT IN PRINCIP	,	-	
Change	"EPON" to "Nx	25G-EPON" in caption.				-	with terminology alignm	ont [.]	
See con	nment #122 for	XGMII-related changes.			030 1	ie following text	with terminology angrini	on.	
/ 141	SC 141.1.2		L1	# 122					igth division multiplexing
				# 122		141–5."	wo wavelengths are liste	ed for these links in	Table 141-1 through
emein, Du			Technologies, Inc.		01.444	00 444 4 0	Dee	1.00	# 005
Comment Ty		Comment Status A	142 8 144) all ab	ow two 25CMII	C/ 141	SC 141.1.3	P 55	L 38	# 285
		her similar figures in 142 icate use of the XGMII.	, 143, & 144) all Shi			vski, Natalie		Il Motors	
uggestedR	emedv				Comment	21	Comment Status		to to the state of the
For each	n of the four fig	ures in 2 places, adjacent	to the right of OLT	and ONU 25GMII, add			spaces in number that h the 2014 IEEE-SA Style		ts to the right of the
instance	s of Nx25-EPC	phic and above the key a N one-half of an XGMII (t	transmit or receive)	may be paired with a	Suggested	dRemedy			
complen		ceive or transmit) of a 25				ge: 25.78125 5.781 25			
esponse		Response Status W			Proposed	Response	Response Status Z	2	
ACCEP	T IN PRINCIPL	E.			PROF	POSED REJECT	Г.		
a) (attac	hed to the first II (transmit or r) of a 25GMII to	nnel 0 interface. It is bett 25GMII interface) - "In so eceive) may be paired wit provide a 25Gb/s downs nd 25GMII interface) - "	ome instances of Na th its complementar stream and 10Gb/s	25-EPON one-half of y peer (receive or upstream interface."	This c	comment was W	ITHDRAWN by the com	menter.	

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.
C/ 141 SC 141.1.3 P57 L8 # 287	Cl 141 SC 141.2.5 P58 L1 # 403
Wienckowski, Natalie General Motors	Dawe, Piers Mellanox
Comment Type E Comment Status D	Comment Type E Comment Status A but
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.	"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
	Response Response Status C ACCEPT.

C/ 141 SC 141.2.5

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Dawe, Piers		L 50	# 402	C/ 141 SC 141	1.2.6 P 59	L18	# 405
	Mellanox			Dawe, Piers	Mellanox		
Comment Type T	Comment Status A			Comment Type T	R Comment Status A		
Will these work over less t overload. But that contract	han 1:16 and/or less than 2 licts "<= x dB".	20 km? As stat	ed, it's all about		on't use a baseband signal! 1.2.3 how encoded data is transmitted		odulation type (e.g.,
SuggestedRemedy Rephrase "at least".				SuggestedRemedy So far, optical PN	MDs all have BASE in their name	(so in effect, it jus	t signifies Ethernet)
Response F ACCEPT IN PRINCIPLE.	Response Status C			and all use "inter too. This cell could be	nsity modulation". However, P80 e left blank.	2.3ct may call cohe	erent PMDs "BASE"
	nents for both power budge			Response ACCEPT.	Response Status W		
W 141 SC 141.2.6	P 59	L 9	# 18	C/ 141 SC 141	1.2.7 P59	L 29	# 408
łajduczenia, Marek Comment Type E	Charter Comm Comment Status A	unications	bucket	Dawe, Piers	Mellanox	L 23	# 400
it would be easier on read used only in this clase, so <i>SuggestedRemedy</i> Per comment	er's eyes to see r _{1changes are minimum}	sub> and not r1	. Same for r2. This is	SuggestedRemedy	Comment Status A nsmitter launch power and receiv nsmitter launch powers and rece		
Response F ACCEPT.	Response Status C			Response ACCEPT IN PRI	Response Status C NCIPLE.		
6/ 141 SC 141.2.6	P 59	L17	# 406	Change to "paire	ed PMDs' transmitter launch powe	ers and receiver se	nsitivities"
	Mellanox <i>Comment Status</i> A Ds operate at Gigabit rates	п					
SuggestedRemedy Gigabit -> gigabit/s, But a	ctually, G is a multiplier for	r1/r2					
0 0 0 0 0 0 0 0 0 0	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/ 141 SC 141.2.7 Page 23 of 103 8/4/2019 8:18:18 AM

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C/ 141	SC 141.2.7	P 59	L 29	# 407	C/ 141	SC	141.2.7	P 59	L 35	# 329	
Dawe, Pier	S	Mellanox			Laubach,	Mark		Broadcom			
Comment T	<i>ур</i> е т	Comment Status A			Comment	Туре	Е	Comment Status A			bucket
"a powe	er budget is a ch	naracteristic of a link"						s split across pages, missing n table title on page 60. This i			59 and
Suggested					Suggested	0 (,	Table life on page 66. This i	o i fumernaker t		
		ertion loss" is a characteristic of PMD types, of a link type, o					•	variable thing to add the "(co	ntinue)".		
Response		Response Status C			Response			Response Status C			
ACCEF	PT IN PRINCIPL	E.			ACCE	PT.					
Change	9				C/ 141	SC	141.2.7	P 59	L 38	# 409	
"a powe	er budget is a ch	naracteristic of a link"			Dawe, Pie	ers		Mellanox		_	
•	3				Comment	Туре	Е	Comment Status A			bucke
to					Dow						
"a powe	er budget is a ch	naracteristic of a link type"			nstrea						
C/ 141	SC 141.2.7	P 59	L33	# 410	Suggested						
			L 33	# 410	Break	after th	e /				
Dawe, Pier		Mellanox			Response			Response Status C			
Comment T		Comment Status A			ACCE	PT.					
interest	ed in coexisten	bout "same coexistence mode ce, (or even if one is), in what			C/ 141	SC	141.2.7	P 59	L 40	# 19	
	r G, or to an X?				Hajduczer	nia, Mar	ek	Charter Comr	nunications		
Suggested	,				Comment	Туре	Е	Comment Status A			bucket
Spell it	out clearly				Footne	ote (b) l	ocation in	Table 141-7 is odd (it move	d to a new line)		
Response		Response Status C			Suggested	Remed	ły				
	PT IN PRINCIPL				Make size a		otnote (b)	location is with the main text	of the column c	aption (extend	column
		n page 59, line 34 (end of exis PMDs is not supported, e.g.,			Response			Response Status C			
not inte	roperable with 2	25/10GBASE-PQX-U2 due to ONU transmitter wavelength i	non-overlapping		ACCE			_			

C/ 141 SC 141.2.7

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

C/ 141 SC 141.2.7	P 60	L1	# 20	C/ 141 SC	141.3	P 61	L 29	# 123
Hajduczenia, Marek	Charter Comr	nunications		Remein, Duane		Futurewei Tec	hnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type	Е	Comment Status A		bucke
No "(continued) mark	er for Table 141-7 caption					"PQ type PMD" and 15 instan		
SuggestedRemedy						ous and we should only use out the title indicates Nx25F-EF		
Make sure it is added	ł					ut PMD type is "PQ type PMI	Ο".	
Response	Response Status C					asier on the 1st time reader.		
ACCEPT.				SuggestedRemed				
C/ 141 SC 141.2.7	.1 P60	L19	# 21	Change all in "PQ type PM				
Hajduczenia, Marek	Charter Comr			"25G-EPON I				
Comment Type T	Comment Status A	numeations		Note 1x in Cl	142			
21	tes recommended pairings" -	it implies these	are iust	Response		Response Status C		
	d other pairings are possible	·	,	ACCEPT IN I	PRINCIPLI			
SuggestedRemedy					-			
	4"			Change all in				
Strike "recommended	J			"PO type PM	1)" to			
Response	Response Status C			"PQ type PM "Nx25G-EPO				
	-			"Nx25G-EPO	N PMD"	P61	L 50	# 411
Response	Response Status C	L 41	# 22	"Nx25G-EPO		P 61 Mellanox	L 50	# [411
Response ACCEPT.	Response Status C	- ••	# 22	"Nx25G-EPO C/ 141 SC	N PMD"	•••	L 50	# [411
Response ACCEPT. Cl 141 SC 141.2.7	Response Status C	- ••	# 22	"Nx25G-EPO C/ 141 SC Dawe, Piers	N PMD" 141.3.1.1	Mellanox	L 50	# [411
Response ACCEPT. Cl 141 SC 141.2.7 Hajduczenia, Marek Comment Type T Subclause 141.2.3 re	Response Status C .1 P 60 Charter Comr	nunications		"Nx25G-EPO Cl 141 SC Dawe, Piers Comment Type EQT? SuggestedRemed	N PMD" 141.3.1.1 T	Mellanox Comment Status A		# [411
Response ACCEPT. Cl 141 SC 141.2.7 Hajduczenia, Marek Comment Type T Subclause 141.2.3 re coexistence modes	Response Status C .1 P 60 Charter Comr Comment Status R	nunications		"Nx25G-EPO Cl 141 SC Dawe, Piers Comment Type EQT? SuggestedRemed	N PMD" 141.3.1.1 T	Mellanox		# [411
Response ACCEPT. Cl 141 SC 141.2.7 Hajduczenia, Marek Comment Type T Subclause 141.2.3 re coexistence modes SuggestedRemedy	Response Status C .1 P60 Charter Comr Comment Status R ofers to coexistence options as	nunications	ses and not	"Nx25G-EPO Cl 141 SC Dawe, Piers Comment Type EQT? SuggestedRemed As this is its f Response	N PMD" 141.3.1.1 T dy ïirst appera	Mellanox Comment Status A ance, explain, e.g. with a cros Response Status C		# [411
Response ACCEPT. Cl 141 SC 141.2.7 Hajduczenia, Marek Comment Type T Subclause 141.2.3 re coexistence modes SuggestedRemedy	Response Status C .1 P60 Charter Comr Comment Status R efers to coexistence options as same coexistence mode" to "si	nunications	ses and not	"Nx25G-EPO C/ 141 SC Dawe, Piers Comment Type EQT? SuggestedRemed As this is its f	N PMD" 141.3.1.1 T dy ïirst appera	Mellanox Comment Status A ance, explain, e.g. with a cros Response Status C		# [<u>411</u>
Response ACCEPT. Cl 141 SC 141.2.7 Hajduczenia, Marek Comment Type T Subclause 141.2.3 re coexistence modes SuggestedRemedy Change "support the	Response Status C .1 P60 Charter Comr Comment Status R efers to coexistence options as same coexistence mode" to "si	nunications	ses and not	"Nx25G-EPO Cl 141 SC Dawe, Piers Comment Type EQT? SuggestedRemed As this is its f Response	N PMD" 141.3.1.1 T dy irst appera	Mellanox Comment Status A ance, explain, e.g. with a cros Response Status C E.		# [<u>411</u>

C/ 141 SC 141.3.1.1

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

				ou		1.0	# 055
C/ 141 SC 141.3.1.	2 P62	L1	# 413	C/ 141 SC 141.3.3	P 64	L 2	# <u>355</u>
Dawe, Piers	Mellanox			Dudek, Mike	Marvell		
Comment Type T	Comment Status A			Comment Type TR	Comment Status A		
	UNITDATA_i.request (where ion for what seems to be an e				s are allocated to DW1 and 141.3.3 and 141.3.4. Does		
SuggestedRemedy				SuggestedRemedy			
Be consistent. Explai	n what i is.			Add the extra information	n or state explicitly that it d	oesn't matter.	
Response	Response Status C			Response	Response Status C		
ACCEPT IN PRINCIP	LE.			ACCEPT IN PRINCIPLE			
Insert "(where i = 0 or - PMD_UNITDATA[i].	request(tx_bit), page 62, line \$	5		Implement changes per http://www.ieee802.org/3	/ca/public/meeting_archive	e/2019/07/krame	r_3ca_11_0719.pdf
	indication(rx_bit), page 62, lin uest(tx_enable), page 62, line			C/ 141 SC 141.3.6	P 64	L 45	# 415
- PMD_SIGNAL[i].indi	cation(SIGNAL_DETECT), pa	age 62, line 39		Dawe, Piers	Mellanox		
Add the statement: "F	or any indexed test point (e.g	TP1[i]) [i] indi	cates the channel index	Comment Type T	Comment Status A		
	ne end of para on page 62, lin			Just saying "it's defined"	isn't enough.		
C/ 141 SC 141.3.1.	2 P62	L 8	# 412	SuggestedRemedy	-		
_	2 P62 Mellanox	L 8	# 412	SuggestedRemedy	level), or refer to somewhe	ere that does.	
Dawe, Piers	Mellanox	L 8	# 412	SuggestedRemedy	-	ere that does.	
Dawe, Piers Comment Type T		L 8	# 412	SuggestedRemedy Define it (at a superficial	level), or refer to somewhe	ere that does.	
Dawe, Piers Comment Type T signaling speed	Mellanox	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE	level), or refer to somewhe Response Status C		1.4
Dawe, Piers Comment Type T signaling speed	Mellanox	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor	level), or refer to somewho <i>Response Status</i> C ntents. Primitive is already		
Dawe, Piers Comment Type T signaling speed SuggestedRemedy signaling rate	Mellanox Comment Status A	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE	level), or refer to somewhe Response Status C		.1.4. # <u>350</u>
Dawe, Piers Comment Type T signaling speed SuggestedRemedy signaling rate Response	Mellanox	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor	level), or refer to somewho <i>Response Status</i> C ntents. Primitive is already		
Dawe, Piers Comment Type T signaling speed SuggestedRemedy signaling rate Response ACCEPT.	Mellanox Comment Status A	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E	level), or refer to somewhe Response Status C	defined in 141.3 L	# <u>350</u> buck
Dawe, Piers Comment Type T signaling speed SuggestedRemedy signaling rate Response	Mellanox Comment Status A	L 8	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a p	level), or refer to somewhe Response Status C	defined in 141.3 <i>L</i> raft. The majority	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances	Mellanox Comment Status A	L8 L2	# 412	SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a p space between the symb	level), or refer to somewhe Response Status C	defined in 141.3 <i>L</i> raft. The majority	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3	Mellanox Comment Status A			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a p space between the symb 6 through 7 and 15 through	level), or refer to somewhe Response Status C	defined in 141.3 <i>L</i> raft. The majority	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3 Dawe, Piers	Mellanox Comment Status A Response Status C P64			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a pl space between the symb 6 through 7 and 15 throug SuggestedRemedy	level), or refer to somewhe Response Status C ntents. Primitive is already P65 Broadcom Comment Status A lus-minus symbol in the dr ool and the following number gh 19 consistent.	defined in 141.3 <i>L</i> raft. The majority er. Suggest mak	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3 Dawe, Piers	Mellanox Comment Status A Response Status C P64 Mellanox Comment Status A			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a pl space between the symb 6 through 7 and 15 throug SuggestedRemedy Add the non-breaking space	level), or refer to somewhe Response Status C ntents. Primitive is already P65 Broadcom Comment Status A lus-minus symbol in the dr ool and the following number gh 19 consistent.	defined in 141.3 <i>L</i> raft. The majority er. Suggest mak	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3 Dawe, Piers <i>Comment Type</i> T As there are three lev	Mellanox Comment Status A Response Status C P64 Mellanox Comment Status A			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a pl space between the symb 6 through 7 and 15 throug SuggestedRemedy	level), or refer to somewhe Response Status C ntents. Primitive is already P65 Broadcom Comment Status A lus-minus symbol in the dr ool and the following number gh 19 consistent.	defined in 141.3 <i>L</i> raft. The majority er. Suggest mak	# <u>350</u> bucke v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3 Dawe, Piers <i>Comment Type</i> T As there are three lev	Mellanox Comment Status A Response Status C P64 Mellanox Comment Status A els			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a pl space between the symb 6 through 7 and 15 throug SuggestedRemedy Add the non-breaking space	level), or refer to somewhe Response Status C ntents. Primitive is already P65 Broadcom Comment Status A lus-minus symbol in the dr ool and the following number gh 19 consistent.	defined in 141.3 <i>L</i> raft. The majority er. Suggest mak	# <u>350</u> buck v uses a non-breaking
Dawe, Piers <i>Comment Type</i> T signaling speed <i>SuggestedRemedy</i> signaling rate <i>Response</i> ACCEPT. Change all instances <i>Cl</i> 141 <i>SC</i> 141.3.3 Dawe, Piers <i>Comment Type</i> T As there are three lev <i>SuggestedRemedy</i>	Mellanox Comment Status A Response Status C P64 Mellanox Comment Status A els			SuggestedRemedy Define it (at a superficial Response ACCEPT IN PRINCIPLE Strike 141.3.6 and its cor Cl 141 SC 141.5 Laubach, Mark Comment Type E There are 48 uses of a pl space between the symb 6 through 7 and 15 throug SuggestedRemedy Add the non-breaking space	level), or refer to somewhe Response Status C ntents. Primitive is already P65 Broadcom Comment Status A lus-minus symbol in the dr ool and the following number gh 19 consistent.	defined in 141.3 <i>L</i> raft. The majority er. Suggest mak	# <u>350</u> bucke v uses a non-breaking

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
 Page 26 of 103

 SC
 141.5
 8/4/2019
 8:18:18 AM

IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments **Approved Responses** C/ 141 SC 141.5 P65 L24 # 124 C/ 141 SC 141.5.1 P66 L16 # 95 Remein, Duane Futurewei Technologies, Inc. Anslow, Pete Ciena Comment Type Е Comment Status A bucket Comment Type E Comment Status A bucket There are 2 instances of "PQ PHY". Whereas Nx25G-EPON PHY appears 256 times. IEEE uses an en-dash as a minus sign Random new terms are not desirable. Empty cells in tables contain an em-dash SuagestedRemedv SugaestedRemedv Change Change the minus sign to an en-dash (Ctrl-g Shft-p) throughout the entire draft. For "PQ PHY" to example: 3 instances in Table 141-13 "Nx25G-EPON PHY" 3 instances in Table 141-14 Response Response Status C 8 instances in Table 141-15 (and footnote d) ACCEPT. 9 instances in Table 141-16 (and footnote e) 3 instances in Table 141-17 C/ 141 SC 141.5 P65 L 25 # 125 3 instances in Table 141-18 8 instances in Table 141-19 (and footnote c) Remein. Duane Futurewei Technologies, Inc. 8 instances in Table 141-20 Comment Type E Comment Status A bucket 4 instances in Table 141-21 There are 2 instances of "PQ compliant". Whereas Nx25G-EPON PHY appears 256 etc. Populate empty table cells with an em-dash (Ctrl-g Shft-g) throughout the entire draft. For times. Random new terms are not desirable. example: SuggestedRemedy 2 instances in Table 141-13 Change all instances of 2 instances in Table 141-14 "PQ compliant" to 2 instances in Table 141-17 "Nx25G-EPON compliant" 2 instances in Table 141-18 etc. Response Response Status C

Response

C/ 141

Anslow, Pete

ACCEPT.

Comment Type E

SuggestedRemedy

67, line 22)

ACCEPT.

Response

SC 141.5.1

Same issue in Table 141-14

ACCEPT.

C/ 141 SC 141.5.1

Response Status C

Comment Status A

Response Status C

">=" should be a single character (Ctrl-q 8 in Symbol font)

P66

change ">=" to a single character (Ctrl-g 8 in Symbol font) here and in Table 141-14 (page

Ciena

L 22

96

bucket

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/ 141	SC 141.5.1	P 66	L 27	# 416	C/ 141	SC 141.	5.1	P66		L 35	# 23
Dawe, Piers		Mellanox			Hajduczer	nia, Marek		Charte	r Comn	nunications	
Comment Typ	e TR	Comment Status R			Comment	Type EF	2	Comment Status	4		
implemen	iters to set up	num of 8 dB sounds like an u at worse TDP than they could		int, which may force	require		at is the	eed this value" - sou case, it shoul dbe o			
SuggestedRe	•	o minimum, add another OM		ing 24 og nagagaan	Suggested	dRemedv					
This will c	ost the receive	er nothing and widen the imp b from "at minimum extinction	lementation opti	ons for the	••	omment. The	e same	comment applies to	page 6	57, like 35; page 7	71, line 46, and page
Response		Response Status W			Response	•		Response Status	C		
REJECT.					ACCE	PT IN PRIN	CIPLE.				
to ER value Tx and Ry data show	ue would caus specifications vs ER (min) of	ulations have been done aro e ripple effects for all receive s for lower ER (min) value wo 8dB not presenting any issue	side spècs. A c ould be needed. es.	omplete proposal for To date experimental	Conve "(min) becon	ert "must" sta must excee nes	atement d this v		0		
/ 141	SC 141.5.1	P 66	L 34	# 417	"(min)	exceeds thi	s value'	."			
Dawe, Piers		Mellanox			C/ 141	SC 141.	5.2	P68		L3	# 126
Comment Typ	e TR	Comment Status A			Remein, I	Duane		Future	vei Teo	hnologies, Inc.	
	E-SR: BER 1e	-12, TDP max 3.9, mask {0.2	5, 0.40, 0.45, 0.2	25, 0.28, 0.40} ("no	Comment			Comment Status			
	E-SR4: BER 1	35, 0.265, 0.4} at 5e10-5 hits e-12, TDP max 3.5, mask {0.		0.27, 0.35, 0.4} at 5e10-	50/25	GBASE-PQ	G-D2 ar		X-D2 a	ppear in Table 14	41-15 twice, once with
25GBASE	E-SR: BER 5e	10-5, TDEC max 4.3 dB, mas	sk {0.3, 0.38, 0.4	5, 0.35, 0.41, 0.5} at	The sa	ame issues	exists ir	n Tables 141-16, 14	1-17 &	141-18.	
25GBASE	s/sample. KR E-LR, ER: BEF Ie. KR FEC	FEC R 5e10-5, TDP max 2.7 dB, {(0.31, 0.4, 0.45, 0).34, 0.38, 0.4} at 5e-5	Suggested Remo	-	nstance	e (indicating 2 center	· wavele	engths) of both.	
This draft hits/samp	OLT: BER 1e le. QC-LDPC	-2, TDP max 1.5 dB, {0.25, 0 FEC ax 2 dB, mask coordinates a		· •	Response ACCE			Response Status	N		
uggestedRe	medy										
So we ne		k hit ratio, somewhere near 1 s known.	e-2, and should	review the mask							
Response		Response Status W									
ACCEPT	IN PRINCIPLI	Ε.									
	editor's note ir against the ne	ndicating that the new mask v ext draft(s).	vill be needed ar	nd submitted as a							

C/ 141 SC 141.5.2

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

C/ 141	SC	141.5.2	P 68	L 32	# 418	C/ 141	SC	141.5.2	P 69	L 20	# 437
Dawe, Pier	S		Mellanox			Powell, W	'illiam		Nokia		
Comment 7	Гуре	TR	Comment Status R			Comment	Туре	TR	Comment Status A		Average receive pow
J2 and Suggestedl But as	J4, as Remea the pre	s 25GBASI dy e-BER is 1	 probably the stressed rece E-SR, LR and ER, rather that e-2, even J4 is wrong. May 	n VEČP, J2 an	d J9 as 40GBASE-SR4.	mediu should inclusi purpos	im pow d be rei ion of a se to sj	er class co noved per in informat pecify a co	ntry for Average receive pow busin, Table 141-15, does no the rationale in comment #2 ive spec on minimum average mpliant RX. An RX that mee	ot, which is not 79 on D1.1 (J ge receive pov ts the require	t consistent. That entry lohn Johnson): "The wer doesn't serve any ments of maximum
SEC Ca Response	an eas	ily be defir	ned for a BER of 1e-2. Response Status W						A) and maximum stressed r s of AVP associated with ver		
REJEC	Э.		,			Suggested	dReme	dy			
						Remo	ve Ave	rage receiv	ve power, each channel (mir) from Table	141-16.
current conserv	.3ca r vative	method of than SRS	.org/3/cc/public/adhoc/16090 SRS measurement based or for a single wavelength of 10 cification at this time.	n 100GBASE-L	R/ER SRS is more	Response ACCE		PRINCIPL	Response Status C E.		
Soo htt		w iooo900	2.org/3/ca/public/meeting_arc	abive/2010/07/r	200 20 0710 ndf	See co	ommer	nt #446			
	•	iscussion.		//////////////////////////////////////	Jowell_Jca_2a_0719.pul	C/ 141	SC	141.5.2	P 69	L 20	# 446
C/ 141	SC	141.5.2	P68	L35	# 439	Johnson,	John		Broadcom		
Powell, Wil Comment 7		TR	Nokia Comment Status A				clusior		Comment Status A rmative spec on minimum a	•	
Comment 7 Tables to "Stre	<i>Type</i> 141–1 essed e	15: In addit eye J2 Jitte		er" since it refe		The in purpos receiv even f	iclusior se to s er sens or very	n of an info becify a co sitivity (OM low values		ets the require eceiver sensit ry high ER sig	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 7 Tables to "Stre	<i>Type</i> 141–1 essed e make	15: In addit eye J2 Jitt it consiste	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte	er" since it refe		The in purpos receiv even f remov	iclusior se to sp er sens for very red fror	n of an info becify a co sitivity (OM low values n Table 14	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver	ets the require eceiver sensit ry high ER sig	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 7 Tables to "Stre and to Suggested	<i>Type</i> 141–1 essed e make Remed	15: In addit eye J2 Jitt it consiste dy	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St	er" since it refe 141-19.	rs to all 3 parameters,	The in purpos receiv even f remov Suggested Delete	iclusion se to sp er sens for very ved fror dReme e the lir	n of an info becify a co sitivity (OM low values n Table 14 dy ne for "Ave	rmative spec on minimum ar mpliant RX. An RX that mer A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch	ets the require eceiver sensit ry high ER sig lent originally annel	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 7 Tables to "Stre and to Suggested Apply fo Response	Type 141–1 essed o make Remed ootnot	15: In addit eye J2 Jitt it consiste dy	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of	er" since it refe 141-19.	rs to all 3 parameters,	The in purpos receiv even f remov Suggested Delete	iclusion se to sp er sens for very ved fror dReme the lin in Tab	n of an info becify a co sitivity (OM low values n Table 14 dy ne for "Ave	rmative spec on minimum a mpliant RX. An RX that mee A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm	ets the require eceiver sensit ry high ER sig lent originally annel	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 1 Tables to "Stre and to Suggested/ Apply for Response ACCEF	Type 141–1 essed o make Remed ootnot	15: In addit eye J2 Jitti it consiste dy e (f) to "St	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C	er" since it refe 141-19. ressed eye J9	rs to all 3 parameters, Jitter" in Table 141-15.	The in purpos receiv even f remov Suggested Delete (min)"	iclusion se to sp er sens for very red fror dReme e the lin in Tab	n of an info becify a co sitivity (OM low values n Table 14 dy ne for "Ave	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr	ets the require eceiver sensit ry high ER sig lent originally annel	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 7 Tables to "Stre and to 1 Suggestedl Apply fo Response ACCEF C/ 141	Type 141–1 essed of make Remed ootnot PT.	15: In addit eye J2 Jitt it consiste dy	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C	er" since it refe 141-19.	rs to all 3 parameters,	The in purpos receiv even f remov Suggested (min)" Response	clusior se to sp er sens or very ed fror dReme e the lir in Tab	n of an info becify a co sitivity (OM low values n Table 14 dy ne for "Ave	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr	ets the require eceiver sensit ry high ER sig lent originally annel	e power doesn't serve any ements of maximum ivity (OMA) is compliant, nals. This line should be
Comment 7 Tabless to "Stre and to 1 Suggested/ Apply for Response ACCEF C/ 141 Lynskey, E	Type 141–1 essed o make Remed ootnot PT. SC ric	15: In addit eye J2 Jitt it consiste dy e (f) to "St 141.5.2	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom	er" since it refe 141-19. ressed eye J9	rs to all 3 parameters, Jitter" in Table 141-15.	The in purpos receiv even f remov Suggestec Delete (min)" Response ACCE	clusior se to s er sens for very red fror d <i>Reme</i> the lin in Tab	o of an info pecify a co sitivity (OM low value: n Table 14 dy le for "Ave le 141-16 a	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C	ets the require eceiver sensit ry high ER sig ent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1)
Comment 7 Tables to "Stre and to Suggested/ Apply for Response ACCEF C/ 141 Lynskey, E Comment 7	Type 141–1 essed o make Remed ootnot PT. SC ric	15: In addit eye J2 Jitt it consiste dy e (f) to "St 141.5.2 T	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom Comment Status A	er" since it refe 141-19. ressed eye J9 <i>L</i> 37	rs to all 3 parameters, Jitter" in Table 141-15. # <u>310</u>	The in purpos receiv even f remov Suggested (min)" Response ACCE C/ 141 Lynskey, F	clusion se to si er sens or very red fror d <i>Reme</i> e the lin in Tab : PT.	o of an info pecify a co sitivity (OM low value: n Table 14 dy le for "Ave le 141-16 a	rmative spec on minimum a mpliant RX. An RX that mee A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C <i>P</i> 69	ets the require eceiver sensit ry high ER sig ent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1)
Comment 7 Tables to "Stre and to Suggested/ Apply for Response ACCEF C/ 141 Lynskey, E Comment 7	Type 141–1 essed o make Remed ootnot PT. SC ric	15: In addit eye J2 Jitt it consiste dy e (f) to "St 141.5.2 T	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom	er" since it refe 141-19. ressed eye J9 <i>L</i> 37	rs to all 3 parameters, Jitter" in Table 141-15. # <u>310</u>	The in purpos receiv even f remov Suggested (min)" Response ACCE C/ 141 Lynskey, f Comment Table	clusion se to si er sens for very red fror d <i>Reme</i> the lin in Tab PT. SC Eric Type 141-16	o of an info pecify a co sitivity (OM low value: n Table 14 dy e for "Ave le 141-16 a 141.5.2 T	rmative spec on minimum ar mpliant RX. An RX that mea A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C <i>P</i> 69 Broadcom	ets the require ecciver sensit ry high ER sig eent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1) # <u>308</u>
Comment 7 Tables to "Stre and to f Suggested/ Apply fo Response ACCEF C/ 141 Lynskey, E Comment 7 Table 1 jitter.	Type 141–1 essed o make Remec ootnot PT. SC ric Type 41-15 Remec	15: In addit eye J2 Jitt it consiste dy e (f) to "St 141.5.2 T reference	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom Comment Status A s Table 75-6, which does no	er" since it refe 141-19. ressed eye J9 <i>L</i> 37	rs to all 3 parameters, Jitter" in Table 141-15. # <u>310</u>	The in purpos receiv even f remov Suggested (min)" Response ACCE C/ 141 Lynskey, f Comment Table power	clusion seto s er sens for very red fror d <i>Reme</i> e the lir in Tab PT. SC Eric Type 141-16 (min).	n of an info pecify a co sitivity (OM low value: n Table 14 dy ne for "Ave le 141-16 a 141.5.2 T 5 reference	rmative spec on minimum ar mpliant RX. An RX that mer A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C <i>P</i> 69 Broadcom <i>Comment Status</i> A	ets the require ecciver sensit ry high ER sig eent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1) # <u>308</u>
Comment 7 Tables to "Stre and to f Suggested/ Apply fo Response ACCEF C/ 141 Lynskey, E Comment 7 Table 1 jitter.	Type 141–1 essed o make Remec ootnot PT. SC ric Type 41-15 Remec	15: In addit eye J2 Jitti it consiste dy re (f) to "St 141.5.2 T reference	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom Comment Status A s Table 75-6, which does no	er" since it refe 141-19. ressed eye J9 <i>L</i> 37	rs to all 3 parameters, Jitter" in Table 141-15. # <u>310</u>	The in purpos receiv even f remov Suggested (min)" Response ACCE Cl 141 Lynskey, f Comment Table power	er sens for very ved fror dReme e the lir in Tab PT. SC Eric Type 141-16 (min). dReme	n of an info pecify a co sitivity (OM low values in Table 14 dy ne for "Ave le 141-16 a 141.5.2 T 5 reference	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C P69 Broadcom <i>Comment Status</i> A s Table 75-6, which does not	ets the require ecciver sensit ry high ER sig eent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1) # <u>308</u>
Comment 7 Tables to "Stre and to f Suggested/ Apply fe Response ACCEF C/ 141 Lynskey, E Comment 7 Table 1 jitter. Suggested/	Type 141–1 essed o make Remec ootnot PT. SC ric Type 41-15 Remec	15: In addit eye J2 Jitt it consiste dy e (f) to "St 141.5.2 T reference	Comment Status A tion to "Vertical eye closure p er" and "Stressed eye J9 Jitte nt with footnote (e) in Table of ressed eye J2 Jitter" and "St Response Status C P68 Broadcom Comment Status A s Table 75-6, which does no	er" since it refe 141-19. ressed eye J9 <i>L</i> 37	rs to all 3 parameters, Jitter" in Table 141-15. # <u>310</u>	The in purpos receiv even f remov Suggested (min)" Response ACCE Cl 141 Lynskey, f Comment Table power	clusion se to sp er sens for very red fror d <i>Reme</i> the lin in Tab PT. SC Eric Type 141-16 (min). d <i>Reme</i> this cel	n of an info pecify a co sitivity (OM low value: n Table 14 dy ne for "Ave le 141-16 a 141.5.2 T 5 reference	rmative spec on minimum a mpliant RX. An RX that med A) and maximum stressed r s of AVP associated with ver 1-16. (This repeats a comm rage receive power, each ch and remove associated footr <i>Response Status</i> C P69 Broadcom <i>Comment Status</i> A s Table 75-6, which does not	ets the require ecciver sensit ry high ER sig eent originally annel note (d).	e power doesn't serve any ments of maximum ivity (OMA) is compliant, nals. This line should be submitted against D1.1) # <u>308</u>

Page 29 of 103 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 141.5.2 8/4/2019 8:18:18 AM SORT ORDER: Clause, Subclause, page, line

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

C/ 141 SC 141.5.2	P 69	L 37	# 441	C/ 141 S	SC 141.6.2		₽73	L 39	# 25
Powell, William	Nokia			Hajduczenia,	Marek	Ch	arter Com	munications	
Comment Type TR	Comment Status A			Comment Typ	e ER	Comment Stat	us A		
	tion to "Vertical eye closure pe			Explicit "s	nall" statem	nent with no paired F	PICS		
*Stressed eye J2 Jitter to make it consistent v	r" and "Stressed eye J9 Jitter" vith Table 141-19	since it refers to	all 3 parameters, and	SuggestedRei	nedy				
SuggestedRemedy									be normative on its own, it
,	Stressed eye J2 Jitter" and "S	tressed eve J9 J	itter" in Table 141-16.			xtra into PICS indep receiver type, we co			same statement exists for
Response	Response Status C			(FN13) or	add a new	statement into each	and every	PICS subclau	se for every PMD type
ACCEPT.				(141.10.4.	2 onwards)). My preference is c	on the first a	approach	
				Response		Response State	ıs C		
C/ 141 SC 141.5.2	P 69	L 38	# 309	ACCEPT	N PRINCI	PLE.			
ynskey, Eric	Broadcom			Change "	he receive	er shall be able to tol	erate" to "7	The receiver to	lerates".
Comment Type T	Comment Status A					T I I I I I I I T I		T 444 00	
	es Table 75-6, which does no	t contain two ent	ries for stressed eye	Similar ch	ange unde	r Table 141–15, Tab	le 141–16,	Table 141-20	
jitter.				C/ 141 S	SC 141.6.2	: I	₽74	L 19	# 447
SuggestedRemedy Mark this cell as not a	nnlicahla			Johnson, Johi	า	Br	oadcom		
				Comment Typ	e T	Comment Stat	us A		Average receive powe
Response ACCEPT.	Response Status C			purpose to	specify a	compliant RX. An F	X that mee	ets the require	
C/ 141 SC 141.6	P 70	L 7	# 127	even for v	ery low valu	ues of AVP associat	ed with ver	ry high ER sigr	vity (OMA) is compliant, nals. This line should be submitted against D1.1)
Remein, Duane		chnologies, Inc.		SuggestedRei		141-20. (1113 Tepez		ient onginally a	submitted against D1.1)
Comment Type T	Comment Status A			••	•	verage receive powe	ar each ch	annel	
	t list media types as asserted ver the media types listed in ∃				able 141-2	0 1	a, each ch		
specifications describe	ed in 141.9".		-	Response		Response State	ıs C		
We could restructure t	he table similar to Table 75-1	4 or change the	statement.	ACCEPT.					
SuggestedRemedy									
Change: "media types listed in" "media meeting the di	to spersion shown in"								
	•								
Response	Response Status C								

C/ 141 SC 141.6.2

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

C/ 141	SC 141.6.2	P 74	L19	# 438
Powell, W	illiam	Nokia		
Comment	Type 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	Ξ.		
See comment #447			

C/ 141	SC 141.6.2	P 74	L 30	# 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

Response Response Status C

ACCEPT.

C/ 141	SC 141.7	P 75	L 4	# 24
Hajducze	enia, Marek	Charter Com	munications	
Commen	t Type E	Comment Status D		

Comment Type E

SuggestedRemedy

Proposed Response	Response Status	Z
REJECT.		

This comment was WITHDRAWN by the commenter.

C/ 141					# 56			
Kolesar, P	aul		CommScop	е				
Comment	Туре Т	Comme	nt Status A					
is mos	tly for meas	surements in a fa	actory environme	nsertion loss testin int. The IEC refer alification of cable	rence in clause			
Replac	ce "A suitab			J–T G.650.1." wit n accordance with				
Response		Respons	se Status C					
ACCE	PT.							
C/ 141	SC 141.	7.2	P 75	L18	# 128			
Remein, D	luane		Eutorousi E	echnologies, Inc.				
Comment		Comme		echnologies, me.				
We sh S <i>uggested</i>	<i>Type</i> T ould note th <i>Remedy</i>	hat Table 88-11	ent Status A specifies "valid 1	00GBASE-R sign				
We sh Suggested Add to signal Highlig	<i>Type</i> T ould note th <i>Remedy</i> the end of the specified in	hat Table 88-11 the para "A valio Table 88-16." 8-16 in forest gre	nt Status A specifies "valid 1 1 25G-EPON sign en.	U				
We sh <i>Suggested</i> Add to signal	<i>Type</i> T ould note th <i>Remedy</i> the end of the specified in the Table 88	hat Table 88-11 the para "A valio Table 88-16." 8-16 in forest gre	nt Status A specifies "valid 1 1 25G-EPON sign	00GBASE-R sign				
We sh Suggested Add to signal Highlig Response	<i>Type</i> T ould note th <i>Remedy</i> the end of the specified in the Table 88	hat Table 88-11 the para "A valio Table 88-16." -16 in forest gre <i>Respons</i>	nt Status A specifies "valid 1 1 25G-EPON sign en.	00GBASE-R sign	for the 100GB			
We sh Suggestec Add to signal Highlig Response ACCE	Type T ould note th <i>Remedy</i> the end of i specified in ht Table 88 PT. SC 141.	hat Table 88-11 the para "A valio Table 88-16." -16 in forest gre <i>Respons</i>	nt Status A specifies "valid 1 d 25G-EPON sign en. se Status C	00GBASE-R sign	for the 100GB			
We sh Suggested Add to signal Highlig Response ACCE Cl 141	Type T ould note th <i>Remedy</i> the end of f specified in specified in specified in the end of specified in specified in the end of specified in the end of the end the end of the end the end	hat Table 88-11 s the para "A valio Table 88-16." S-16 in forest gre <i>Respons</i> 7.4	ent Status A specifies "valid 1 d 25G-EPON sign en. se Status C P75	00GBASE-R sign	for the 100GB			
We sh Suggested Add to signal Highlig Response ACCE Cl 141 Dawe, Pie Comment	Type T ould note th <i>Remedy</i> the end of t specified in the Table 88 PT. SC 141. rs Type T	the para "A valid Table 88-16." -16 in forest gre <i>Respons</i> 7.4	ent Status A specifies "valid 1 d 25G-EPON sign en. se Status C P75 Mellanox ent Status A	00GBASE-R sign	for the 100GB # 4 <u>19</u>			
We sh Suggested Add to signal Highlig Response ACCE C/ 141 Dawe, Pie Comment ANSI/I Suggested	Type T ould note th <i>Remedy</i> the end of i specified in specified in the Table 88 PT. SC 141. rs Type T EIA-455-95 <i>Remedy</i>	the para "A valid Table 88-16." -16 in forest gre <i>Respons</i> 7.4	ent Status A specifies "valid 1 d 25G-EPON sign en. se Status C P75 Mellanox ent Status A mative reference	00GBASE-R sign hal is substituted t	for the 100GB # 4 <u>19</u>			
We sh Suggested Add to signal Highlig Response ACCE C/ 141 Dawe, Pie Comment ANSI/I Suggested	Type T ould note th <i>Remedy</i> the end of i specified in specified in the Table 88 PT. SC 141. rs Type T EIA-455-95 <i>Remedy</i>	the para "A valid Table 88-16." -16 in forest gre <i>Respons</i> 7.4 Comme is not in the norm to IEC 61280-1-	ent Status A specifies "valid 1 d 25G-EPON sign en. se Status C P75 Mellanox ent Status A mative reference	00GBASE-R sign hal is substituted t	for the 100GB, # 4 <u>19</u>			

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 141.7.4 Page 31 of 103 8/4/2019 8:18:18 AM

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C/ 141 SC 141.7	7.5 P75	L 36	# 57	C/ 141	SC 141.7.9.2	P 76	L 22	# 97
Kolesar, Paul	CommScope			Anslow, Pete	;	Ciena		
Comment Type T	Comment Status A			Comment Ty	pe T	Comment Status A		
Incorrect reference	to test method. Digits appear tra	ansposed.			ation for Dmin	(Equation 141-1) is the	minimum of three terr	ns:
SuggestedRemedy				0 0.365*la	nbda*(1 - (132	24/lambda) (1)		
Replace 61820-2-2	with 61280-2-2.				nbda*(1 - (132			
esponse	Response Status C				mbda is greate	er than 1324 nm, the se	cond and third terms a	are positive and Dmin
ACCEPT.	·			is zero. When la	mbda is less th	nan 1324 nm, the secor	d and third terms are	negative and the third
/ 141 SC 141.7	.9 P76	1	# 421	term is a	lways more ne	egative than the second	term.	-
		L	# 421			ond term has no effect on for Dmax (Equation 1)		
awe, Piers	Mellanox					ould be deleted.		
omment Type T	Comment Status A e Tx, 141.7.9.3 reference Rx and	1/1 7 0 / (RED)	don't apply to the 10G	SuggestedRe	emedy			
Tx in an ONU.	e 1X, 141.7.9.5 Telefence KX and	141.7.9.4 (DER)	don't apply to the TOG			ete the second term 0.3		/lambda)^4) leaving:
uggestedRemedy				Dmin = r	nin(0, 0.465*la	1324/lambda*(1 - (1324/lambd	a)^4))	
Add text to make th	nis clear, as it is in 141.7.10, Rec	eive sensitivity a	and 141.7.11, SRS.			ete the second term 0.3		/lambda)^4) leaving:
				Dmay –	mav(0_0_465*1	ambda*/1 (1200/lamb	da)/////	
esponse	Response Status C				nax(0, 0.400 i	ambda*(1 - (1300/lamb		
esponse ACCEPT IN PRINC	-			Response		Response Status C		
	, CIPLE.	(TDD)" to "144	7.0 Transmitter and					
ACCEPT IN PRING	CIPLE.	v (TDP)" to "141.	7.9 Transmitter and	Response		Response Status C		# [129
ACCEPT IN PRING Change "141.7.9 T dispersion penalty	CIPLE. ransmitter and dispersion penalty (TDP) for 25G"			Response ACCEP1	SC 141.7.9.4	Response Status C		# 129
ACCEPT IN PRINC Change "141.7.9 T dispersion penalty 141 SC 141.7	CIPLE. ransmitter and dispersion penalty (TDP) for 25G"	/ (TDP)" to "141. <i>L</i> 6	7.9 Transmitter and # 420	Response ACCEP1 Cl 141	SC 141.7.9.4	Response Status C	L 44 rei Technologies, Inc.	# [<u>129</u> bucke
ACCEPT IN PRING Change "141.7.9 T dispersion penalty 7 141 SC 141.7 pawe, Piers	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox			Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th	SC 141.7.9.4 ane pe E ne only instanc	Response Status C P76 Futurew Comment Status A	L 44 ei Technologies, Inc.	
ACCEPT IN PRING Change "141.7.9 T dispersion penalty 7 141 SC 141.7 Dawe, Piers Comment Type T	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox <i>Comment Status</i> A	L6	# 420	Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th or an xM	SC 141.7.9.4 ane pe E ne only instanc II lane.	Response Status C P76 Futurew Comment Status A	L 44 ei Technologies, Inc.	bucke
ACCEPT IN PRINO Change "141.7.9 T dispersion penalty / 141 SC 141.7 lawe, Piers omment Type T 141.7.9 (TDP) refe	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox	L 6 as defined in 52	# 420	Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th or an xM SuggestedR	SC 141.7.9.4 ane pe E ne only instanc Il lane. emedy	Response Status C P76 Futurew Comment Status A se of "lane" that doesn't	L 44 ei Technologies, Inc.	bucke
ACCEPT IN PRINC Change "141.7.9 T dispersion penalty 7 141 SC 141.7 bawe, Piers comment Type T 141.7.9 (TDP) refe	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox <i>Comment Status</i> A rences 88.8.5 but 88.8.5.4 says "	L 6 as defined in 52	# 420	Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th or an xM SuggestedR	SC 141.7.9.4 ane pe E ne only instanc II lane.	Response Status C P76 Futurew Comment Status A se of "lane" that doesn't	L 44 ei Technologies, Inc.	bucke
ACCEPT IN PRINC Change "141.7.9 T dispersion penalty 141 SC 141.7 awe, Piers omment Type T 141.7.9 (TDP) refe x 10^-12". Howeve uggestedRemedy Change "with an op	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox <i>Comment Status</i> A rences 88.8.5 but 88.8.5.4 says "	L 6 as defined in 52 -2.	# 420	Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th or an xM SuggestedR	SC 141.7.9.4 ane pe E ne only instanc II lane. emedy 'lane" to "char	Response Status C P76 Futurew Comment Status A se of "lane" that doesn't	<i>L</i> 44 ei Technologies, Inc. apply to the IEEE add	bucke
ACCEPT IN PRINC Change "141.7.9 T dispersion penalty / 141 SC 141.7 awe, Piers omment Type T 141.7.9 (TDP) refe x 10~12". Howeve uggestedRemedy Change "with an op	CIPLE. ransmitter and dispersion penalty (TDP) for 25G" .9 P76 Mellanox <i>Comment Status</i> A rences 88.8.5 but 88.8.5.4 says " er, 141.7.9.4 says BER of 1 x 10^	L 6 as defined in 52 -2.	# 420	Response ACCEPT Cl 141 Remein, Dua Comment Ty This is th or an xM SuggestedRe Change Response	SC 141.7.9.4 ane pe E ne only instanc II lane. emedy 'lane" to "char	Response Status C P76 Futurew Comment Status A ee of "lane" that doesn't	<i>L</i> 44 ei Technologies, Inc. apply to the IEEE add	bucke

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

C/ 141 SC 141.7.9.4

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	5						
/ 141 SC 141.7.10 P76 L47 # 130	C/ 141 SC 141.7.12 P77 L 12 # 424						
emein, Duane Futurewei Technologies, Inc.	Dawe, Piers Mellanox						
omment Type T Comment Status A	Comment Type T Comment Status R						
Unwarranted Wild Goose Chase . Here -> 141.7.2 -> Table 88-11. Also I don't think we define Rx sensitive for test patterns.	"When measuring jitter at TP1[i] and TP5[i]" do we give even recommendations for jitter TP1[i] and TP5[i] in this clause?						
uggestedRemedy	SuggestedRemedy						
Change	Delete? Change to address the jitter measurements we do have (in SRS calibration)?						
"Receiver sensitivity is defined for test patterns in 75.7.3 (10G) and 141.7.2 (25G)." to "The test patterns in 75.7.3 (10G) and Table 83-11 (25G) are use to test receiver	Response Response Status C						
sensitivity."	REJECT.						
"75.7.3" & "Table 88-11" in forest green.							
esponse Response Status C	Per 141.3.2, measurements made at TP1 and TP5 are test points used by implementers, and are not to be used as compliance test points for this standard. Thus, the guidance in						
ACCEPT IN PRINCIPLE.	141.7.12 on use of high pass filters for TX jitter measurement at TP1 and TP5 are not						
Comment type changed to "T"	compliance test points that require a jitter measurement verification. All transmitter measurements and tests defined in 141.7 are made at TP2 or TP6.						
After editorial fixes	C/ 141 SC 141.7.12 P77 L12 # 423						
Change	Dawe, Piers Mellanox						
"Receiver sensitivity is defined for test patterns in 75.7.3 (10G) and 141.7.2 (25G)." to	Comment Type T Comment Status R						
"The test patterns in 75.7.3 (10G) and 141.7.2 (25G) are used to test receiver sensitivity." "75.7.3" in forest green.	Filtering out the low frequency jitter is a necessary part of the definition, it can't be left "recommended" or there is significant ambiguity.						
/ 141 SC 141.7.10 P76 L48 # 422	SuggestedRemedy						
awe, Piers Mellanox	Usually the same reference CRU as for several other definitions is invoked. This can be						
omment Type E Comment Status A bucke	done by reference. We may need to say more, e.g. references to the jitter metrics such as J2.						
Receive sensitivity	Response Response Status C						
uggestedRemedy	REJECT.						
Receiver sensitivity							
esponse Response Status C	The specification method was derived from 10G-EPON (see 75.7) and uses similar language. No changes to the draft at this time.						
ACCEPT.	language. No changes to the dialt at this time.						

C/ 141 SC 141.7.12 Page 33 of 103 8/4/2019 8:18:18 AM

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C/ 141	SC 141.7.13.1	P 78	L 7	# 425	C/ 141 SC	341.7.13.2	P 77	L 49	# 26
Dawe, Pie	rs	Mellanox			Hajduczenia, Ma	arek	Charter Comr	nunications	
Comment	Туре Т	Comment Status R			Comment Type	ER	Comment Status A		must-vs-shall
Fig 14	1-3 does not show	/ Toff correctly. 15% does r	not come into it.		"must" used	and not inter	nded per Style Guide		
Suggestea	Remedy				SuggestedReme	ədy			
lt's sim	nply the time to the	e average power of OFF trai	nsmitter in the re	levant table.			the steady state optical OF		
Response		Response Status C					dy state optical OFF power	is expected to b	e conformed"
REJEC	CT.				Response		Response Status C		
In out		, Toff measurement does in	aluda 150/ threa	add far magayramant	ACCEPT IN	PRINCIPLE.			
of Toff		, ron measurement does in	ciude 15% intes	ioid for measurement			the steady state optical OF dy state optical OF		e conformed" to
C/ 141	SC 141.7.13.2		L 41	# 131	C/ 141 SC	2 141.7.13.2	P 78	L1	# 98
Remein, D	Juane		chnologies, Inc.		Anslow, Pete	/ 1411/1012	Ciena	- 1	<i>"</i> 30
Comment		Comment Status A e 141-4: "the optical signal a			Comment Type	ER	Comment Status A		redraw
Response	"at TP4"	Response Status C			This has sev read, the us figures is no	e of bit maps t searchable anges are rec	eks: the rendition of the figu increases the file size unne and most importantly, inclu quired in Maintenance after	ecessarily, the te ding non-editabl	ext content of the e figures makes life
Add TI	P4 between conve	erter and scope.							
C/ 141	SC 141.7.13.2	P 77	L 42	# 29	SuggestedReme		ft replacing figures that hav	e heen nasted a	as hit mans with
Hajduczen		Charter Comr		# 23			n FrameMaker.	e been publica e	
Comment		Comment Status A	nunications				ustrating equations, use a v	ector graphics (e.gsvg format) and
	51	ded per Style Guide		can-vs-may			s in FrameMaker. to be replaced are Figures	141-3, 142-2, 14	42-5, 142-6, 142-7,
					142-8, 142-9	9, 142-13, 142	2-14, 142-15, 142-16, 142-′	18, 143-1, 143-2	, 143-3, 143-4, 143-5,
		a variable delay, can measu	re" to "A scope,	with a variable delay, is	144-7, 144-8 17, 144-18,	3, 144-9, 144- 144-20, 144-2	·9, 143-12, 143-13, 143-15, ·10, 144-11, 144-12, 144-13 21, 144-22, 144-23, 144-24 33, 144-34, 142A-1	3, 144-13, 144-1	4, 144-15, 144-16, 144-
Response	DT	Response Status C			Response	,	Response Status W		
ACCE	PI.				ACCEPT.				

C/ 141 SC 141.7.13.2

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

C/ 141 SC 141.7	.14	P 78	L 48	# 132	C/ 141	SC 141.9.	1 P	81	L10	# 55
Remein, Duane	I	Futurewei Te	chnologies, Inc.		Kolesar, F	Paul	Con	nmScope		
Comment Type E	Comment St	atus A		bucket	Comment	Туре Т	Comment Statu	5 A		
The illustration is Fi	igure 141-5 not 141	.7.13.2			Outda	ted reference	to 61280-2-4:2000			
SuggestedRemedy					Suggested	dRemedy				
Change "141.7.13.2	2" to "Figure 141–5"	1					evised in 2014. But th			dated to always imply
Response Response Status C							Remove ":2000" from t		9.	
ACCEPT.					Response ACCE		Response Status	C		
C/ 141 SC 141.7	.14	P 78	L 48	# 426						
Dawe, Piers	I	Mellanox			C/ 141	SC 141.9.			L 17	# 369
Comment Type E	Comment St	atus A		bucket	Dawe, Pie			anox		
141.7.13.2					Comment	51	Comment Status	5 A		buck
SuggestedRemedy						bed in Table 1	41–21			
141.7.14.2					Suggested	-				
Response	Response Sta	atus C			•	in Table 141-2	21			
ACCEPT IN PRINC	IPLE.				Response		Response Status	C		
See comment #132	2				ACCE	PT.				
C/ 141 SC 141.7	14.2	P 79	L 49	# 27	C/ 141	SC 141.9.	2 P	81	L 25	# 100
Hajduczenia, Marek		Charter Com	-	π 21	Anslow, P	ete	Cier	na		
Comment Type ER	Comment St		nunications		Comment	51	Comment Status			buck
"must" used and no					In Tab	ole 141-21 "20	km" should be "20 km"	(space betw	ween a numbe	er and its unit)
SuggestedRemedy		Culde			Suggested					
,	he mot in the follow	vina sconario	e" to "time is expec	ted to be met in the	In Tab	ole 141-21, cha	ange "20km" to "20 km	" (2 instance	es)	
following scenarios		any scenario			Response		Response Status	С		
Response	Response Sta	atus C			ACCE	PT.				
ACCEPT.	,									

C/ 141 SC 141.9.2

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

C/ 141	SC 141.9.2	P 81	L 25	# 435	C/ 141	SC 141.9.2	P 81	L 30	# 99		
Dawe, Pie	rs	Mellanox			Anslow, Pe	ete	Ciena				
Comment	Туре Е	Comment Status A		bucket	Comment T	Type E	Comment Status A				
Max D	ispersion (at 20k	m)					ootnote b to Table 141-21 is:				
Suggested	IRemedy						cified in ITU–T G.652D (low v end–insensitive SMF)."	vater peak, dispe	rsion unshifted SMF)		
	spersion (at 20 s rly for Min	pace km)			The two referen	o ITU-T Recom	mendations are G.652 and G 2.3ca draft) contains specific	ations for two fibe	er types G.652.B and		
Response ACCE	PT	Response Status C			(as per	r the base stand	a dot between 652 and the le lard) contains specifications f	or two fiber types	G.657 Category A		
C/ 141	SC 141.9.2	P 81	L 28	# 370	and G.657 Category B. The 2016 version of G.657 (not referenced) contains sp for two fiber types G.657.A and G.657.B. Consequently, the first sentence of footnote b to Table 141-21 is incorrect.						
Dawe, Pie	rs	Mellanox		<u>_</u>	Suggested	Remedy					
Comment Type E sec- tion SuggestedRemedy Make the table full width		Comment Status A h Response Status C		bucket	 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 (peak, dispersion unshifted SMF) and ITU–T G.657 (bend–insensitive SMF)." or: "These dispersion requirements are satisfied by G.652.D fibers specified in ITU–" (low water peak, dispersion unshifted SMF) and G.657 Category A fibers specifie G.657 (bend–insensitive SMF)." or: "These dispersion requirements are satisfied by G.652.D fibers specified in ITU–" (low water peak, dispersion unshifted SMF) and G.657.D fibers specified in ITU–" or: 						
					"These (low wa		uirements are satisfied by G. ersion unshifted SMF) and G.				
					and up	date the referen	nce in 1.3 to be for the 2016	version of G.657			

C/ 141 SC 141.9.2 Page 36 of 103 8/4/2019 8:18:18 AM

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

	C 141.10.4.1	P 87	L 24	# 101	C/ 142
nslow, Pete		Ciena			Wiencko
omment Type	E Co	omment Status A		bucket	Commen
"Support" c	olumn. e in 141.10.4.42 (141.10.4.1 do not have OM10), 142.5.4, 142.5.5,			Miss decir Suggeste
·					Char
uggestedRem		N40) 440 E 4 440 E E	142 5 4 2 4 4		To: 2
	144.5.4.5 for item	DM10), 142.5.4, 142.5.5, s with status of:	143.5.4.2, 144	1.5.4.1, 144.5.4.2,	Also
"M" change	e the Support entr	y to "Yes []"			Proposed
		y to "Yes [] No []" Support entry to "Yes [] N	I/A []"		PRO
"Something "O.Number	:O" change the S " change the Sup	Support entry to "Yes [] N port entry to "Yes [] No [lo [] N/A []"]"		This
"O/Number'	•	port entry to "Yes [] No []"		C/ 142
esponse	Re	sponse Status C			Dawe, P
ACCEPT.					Commen
/ 141 SC	C 141.10.4.42	P 101	L 43	# 102	Pers
nslow, Pete		Ciena			outpu
omment Type	E Co	omment Status A		bucket	Suggeste
		when they are referenced			Impo and
uggestedRem	nedy				Respons
Change "*C	OM10" to "OM10"				ACC
esponse	Re	sponse Status C			See
ACCEPT.					
/ 142 SC	C 142	P 103	LO	# 290	
Vienckowski, N	Vatalie	General Motors	6		
omment Type	E Co	omment Status A		bucket	
There are c	change bars on th	e header and footer that	should not be	there.	
uggestedRem	nedv				
	-	ges 103 through 179			
	0 1 0	, C			
•	ne ne				
uggestedRem Remove ch esponse ACCEPT.	nange bars on pag	ges 103 through 179 sponse Status C			

SC 142.1 P103 L19 # 289 wski, Natalie **General Motors** Type E Comment Status D ing non-breaking spaces in number that have 4 or more digits to the right of the nal per 13.3.2 of the 2014 IEEE-SA Style Manual. dRemedv nae: 25.78125 25.781 25 on P107 L27, P107 L31, P109 L41, P138 L17, P138 L18, Response Response Status Z POSED REJECT. comment was WITHDRAWN by the commenter. SC 142.1 P105 L1 # 371 Mellanox ers Type ER Comment Status A redraw tyle manual "WGs should create their figures using programs that create vector uť". dRemedv ort the figure a different way, or draw it in Frame. Same for figs 142-5 to 9, 13 to 16 18, 143-1 to 9, 12, 13, 15 and 16, 144-3 to 18, 20 to 29, 31 to 34, and 142A-1. е Response Status W EPT IN PRINCIPLE. comment #98

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 Page 37 of 103 8/4/2019 8:18:18 AM

C/ 142 SC 142.1	P 105	L 1	# 267	C/ 142	SC 142.1.1.	1 P10	13	L 34	# 491
Kramer, Glen	Broadcom			Law, David	d	Hewle	tt Packarc	d Enterprise	
Comment Type T Comm	ent Status A			Comment	Type TR	Comment Status	Α		
1) BER Monotor block is missing	in Figure 142-2.			Subcla	ause 142.1.1.1	State diagrams' states	that 'The	notation used ir	n the state diagrams
2) The PCS Synchronization and	Baasiya Brassaa	hall ha titlad aim	anly DCS Synchronizer			ns in 21.5.' yet Figure 1 Prev = IBI_EQ AND Tx			
Process.	Receive Flocess s	shall be titled sin	ipiy PCS Synchionizer	NEXT	_VECTOR state	e to the RESET_XBUF	state. Acc	ording to the re	eferenced subclause
						used to represent a Bo			
3) The receve and transmit paths	s need to be labelled	d.				EE P802.3ca correctly state diagram'.	follow the	e 21.5 conventio	ons, such as Figure
4) The bidirectional arrows going				Suggested					
confusing. Each of these functior arrows make it more accurate.	is provides output d	interent than its	input. Two separate	••	•	e conventions in 21.5 t	hroughout	the IEEE P802	.3ca draft.
SuggestedRemedy				Response		Response Status	w		
Update the figure 142-2 as shown	n in kramer_3ca_3_	_0719.pdf		ACCE	PT IN PRINCIP	LE.			
Response Respon	se Status C			Chano	e "The notation	used in the state diag	rams follo [,]	ws the conventi	ons in 21.5.". to "Th
ACCEPT.				notatio		tate diagrams follows t			
C/ 142 SC 142.1.1.1	P103	L 29	# 490	C/ 142	SC 142.1.1.			L 3	# 133
Law, David	Hewlett Packa	ard Enterprise							# 133
Comment Type TR Comm	ent Status A			Remein, D				nologies, Inc.	
There is no operator precedence				Comment	•••	Comment Status		\ <u>.</u>	
referenced subclause 21.5. It is the ParityLeft > 0 used on the transiti				illustra	ure 142-2 the st ation specifies x	atement "@ 2x390.625 MII and should therefor	MHZ" (2x) is only correct agnostic.	for 25GMII. The
back to the OUTPUT PARITY P						.65625 MHz" (3x), and			Furthermore, while
Process State Diagram' means (the blo	ock sizes are us	eful they disagree with	Figure 14	2-5.	
SuggestedRemedy				Suggested	Remedy				
Add brackets as necessary to cla	arify the order used	to evaluate state	e diagram transition	Replac	ce the "@xxx" ir	the figure with notes	as follows:	0.450.05 MU	
conditions.				1) For 2) For	25 Gb/s PCS r	2x390.625 MHz, for X0 ate is 97.65625 MHz, fo	MII rate is	8 2x156.25 MHz PCS rate is 39	2. 1 0625 MHz
Response Respon	nse Status W					ate is (25781.25/257) N			
ACCEPT IN PRINCIPLE.				MHz.					
Set explicitly the order of precede	ence, per			Response		Response Status	С		
http://www.ieee802.org/3/ca/publ		2019/07/krame	_3ca_6_0719.pdf	ACCE	PT IN PRINCIP	LE.			
				First, t	hese are not ra	tes, these are clock fre	quencies.		
				•		luttering the entire diag			the state of the second states

C/ 142 SC 142.1.1.3 Page 38 of 103 8/4/2019 8:18:18 AM

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C/ 142 SC 14	2.1.1.3	P 105	L16	# 134	C/ 142	SC 142.1.1.3	P105	L 45	# 373
Remein, Duane		Futurewei Te	chnologies, Inc.		Dawe, Pie	ers	Mellanox		
Comment Type	FR Comm	ent Status A			Comment	Туре Т	Comment Status A		
Misalignment be major blocks/fife	0	, 142-5 and text. M	ostly in block size	es transferred between			for the conventions on bit ically for the MAC.	ordering." 3.1 itse	elf doesn't help, 3.1.1
SuggestedRemedy					Suggested	dRemedy			
				d between the PCS	What	is this trying to te	II us in the context of a PO	CS, not a MAC?	
Input Process, F PMA.	PCS Framer Proc	cess and PCS Tran	smit Process tha	t are not sent to the	Response		Response Status C		
Response	Respor	nse Status C			ACCE	PT IN PRINCIPL	E.		
are being transmostration control purposes	nitted and does r			y shows the bits that moved within PCS for # 372	of 3.1, clarify signific The T referen conve	and it should be that when a vect cance than bit m. F has decided to nce this subclaus ntions in differen	combine all conventions of the form other .3ca clauses to clauses. Since vector no	arate paragraph. T al value, bit n repre used in .3ca into a , rather than duplic tations are used th	his text is intended to esents a bit with lower single subclause and eating identical roughout multiple
Comment Type	r Comm	ent Status R			approp		t of this subclause and we	reel that referenci	ng subclause 3.1.1 is
than the mth bit		verse. Isn't the som		t is received earlier hat we see in e.g.	C/ 142	SC 142.1.1.4		L 51	# 30
		5 1151 :			Hajduczer	-		ommunications	
SuggestedRemedy Try not to write i	t more weird than	n Ethernet bit order	ing already is		Comment "can"	51	Comment Status A ended per Style Guide		can-vs-may
Response	Respor	nse Status C			Suggested	dRemedv	-		
REJECT.					Chang	•	d and can be replaced by	addition" with "stra	ightforward and may be
		t clarifies the vector bmit this comment		s useful for a reader. sific remedy.	Response		Response Status C		

ACCEPT.

C/ 142 SC 142.1.1.4

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C/ 142	SC 142.1.1.4	P 106	L 1	# 494	C/ 142	SC	142.1.2	P107	L 27	# 375	
Brandt, David	d	Rockwell Auto	mation		Dawe, Pie	ers		Mellanox			
Comment Ty	pe E	Comment Status R		post-deadline	Comment	Туре	Е	Comment Status A			bucke
		ate a separate set of "State of			As this	s is the	first use o	FEQT in this clause, and this	is the first project	t to use EQT	
	ate diagrams o	ions", where some of the ope ould reference a consistent of			Suggested Say wi		-	a cross-reference.			
SuggestedRe	emedy				Response			Response Status C			
Merge ne	ew operators in	to a Clause 1.2.1. Reference	this clause.		ACCE	PT IN F	RINCIPLE	Ē.			
Response REJECT		Response Status C			Add a	cross r	eference to	o 1.4.245b.			
RESECT	•				C/ 142	SC	142.1.2	P107	L 34	# 135	
		vith existing definitions is that ple clauses, building a confus			Remein, D	Duane		Futurewei Tec	nnologies, Inc.		
		agram conventions. Rather the			Comment	Туре	Е	Comment Status A			bucke
decided t	to clean the co	nventions up and make them	non-ambiguou	JS.	"aforer	mentior	ied delay l	imits" should be "aforementic	ned delay variati	on limits"	
legacy cl		and retroactively fix the proble uld be affected in the process			Suggested per co	<i>dRemed</i> mment					
by the Ma		SK FUICE.			Response			Response Status C			
C/ 142	SC 142.1.1.4	P 106	L 31	# 493	ACCE	PT.					
Brandt, David	d	Rockwell Auto	mation		C/ 142	SC	142.1.3	P107	L 28	# 291	
Comment Ty		Comment Status A		post-deadline; bucket	Wienckow			General Motor			
	•	s no apparent space betweer	n first "-' and se	econd "-".	Comment	,	E	Comment Status D	-		
SuggestedRe Use a da	,	r font with a break between c	haracters.		Missin	ig non-b		baces in number that have 4 e 2014 IEEE-SA Style Manua		the right of the	
Response		Response Status C			Suggested	Remed	ly				
ACCEPT					Chang	ge: 10.3	3125				
C/ 142	SC 142.1.1.5	P107	L 6	# 374	To: 10 Also o		L32, P109	0 L42, P138 L18, P138 L19,			
Dawe, Piers		Mellanox			Proposed I	Respor	ise	Response Status Z			
Comment Typ in this sta		Comment Status A					REJECT.				
SuggestedRe	-				This co	ommen	t was WIT	HDRAWN by the commenter			
in this cla											

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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	P 108	L 4	# 136	C/ 142 SC 14	2.1.3.1	P 109	L 28	# 450
emein, Duane	Futurewei Tec	chnologies, Inc.		Nicholl, Shawn		Xilinx		
comment Type E C	Comment Status A		bucket	Comment Type	E Cor	nment Status A		
This text is duplicated 4-5 li	nes above.					is somewhat rare in t		
uggestedRemedy						is; 103.3.5.1 also). Mo remove the hyphens.	ost of the time he	ex values are written
Strike the duplicate text				SuggestedRemedy		entere the hypnene.		
esponse Re	esponse Status C			Possible remedi	ies:			
ACCEPT.				1) Replace "0x1	-BF-40-18	' with "0x1BF4018"		
V 142 SC 142.1.3.1	P109	L 24	# 449	 Create a table contains the value 		19-2 - 400GBASE-R a with commas	alignment marker	r encodings" that
icholl, Shawn	Xilinx	- 27	# 443	Response		onse Status C		
,	Comment Status A		subscript	ACCEPT IN PR	,			
This sub-clause uses the ne standard? Is it used anywh		s sub-script notatic	,	See comment #	488			
uggestedRemedy				C/ 142 SC 14	2.2	P109	L 39	# 377
Possible remedies:				Dawe, Piers		Mellanox		
 Make a comment (simila above sentence means" 	r to 49.2.4.1 Notation cor	ventions) that "Th	e subscript in the	Comment Type	T Cor	nment Status A		
2) Simply write out the who		nd notation		As 802.3 uses " misleading.	b/s" for the pa	yload rate (MAC data	rate), saying "25	.78125 Gb/s rate" is
	esponse Status C			SuggestedRemedy				
ACCEPT IN PRINCIPLE.				25.78125 GBd	Several simila	r instances.		
				Response	Resi	oonse Status C		
See comment #488								
	P109	L 24	# 376	ACCEPT IN PR	INCIPLE.			
	P 109 Mellanox	L 24	# 376		-	2125 Ch/c" to "25 781	25 CBd"	
7 142 SC 142.1.3.1 Dawe, Piers		L 24	# 376	Change all insta	ances of "25.78	3125 Gb/s" to "25.7812		
2/ 142 SC 142.1.3.1 Dawe, Piers	Mellanox	L 24		Change all insta	ances of "25.78	3125 Gb/s" to "25.7812 25 Gb/s" to "10.3125		
/ 142 SC 142.1.3.1 lawe, Piers omment Type T C 0x1-(55)32 - eh? uggestedRemedy	Mellanox Comment Status A			Change all insta	ances of "25.78			
142 SC 142.1.3.1 awe, Piers omment Type T C 0x1-(55)32 - eh? uggestedRemedy Is that 55 in base 32, or 55	Mellanox Comment Status A			Change all insta	ances of "25.78			
142 SC 142.1.3.1 bawe, Piers comment Type 0x1-(55)32 - eh? uggestedRemedy Is that 55 in base 32, or 55	Mellanox Comment Status A			Change all insta	ances of "25.78			

C/ 142 SC 142.2

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C/ 142 SC 142.2	P111	L1	# 452	C/ 142 SC 142.2.1 P110 L24 # 138
Nicholl, Shawn	Xilinx			Remein, Duane Futurewei Technologies, Inc.
Comment Type E	Comment Status A		redraw	Comment Type TR Comment Status A
	e 142-5 Transmit bit orderin ure 142-9 Omega Network 2 rry.			We have "Inter-Burst Idle", "inter-burst idle", and "inter-burst idle pattern", "inter-burst idle EQ (IBI_EQ)". I believe these are almost, but not quite, same thing. SuggestedRemedy
SuggestedRemedy				Make the following changes:
Generate new figures the	hat are crisp.			Pg 110 line 24 - OK as is, "Inter-Burst Idle" is defined as a control code denoted as /IBI/
Response	Response Status C			Pg 121 line 32 - change "The IBI258 constant holds the value of the inter-burst idle pattern" to "The IBI258 constant holds the value equivalent to the Inter-Burst Idle pattern"
ACCEPT IN PRINCIPLI	E.			Pg 124 line 53 - change "inter-burst idle (IBI)" to "IBI258 (Inter-Burst Idle pattern
See comment #98				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."
C/ 142 SC 142.2.1	P110	L 7	# 137	Pg 163 all lines OK as is.
Remein, Duane	Futurewei Te	chnologies, Inc.		Response Response Status W
Comment Type E	Comment Status A		bucket	ACCEPT IN PRINCIPLE.
While this is a nice nost defined in the clause an	talgic carry-over from the prend really adds no value.	evious century th	ne term "tx_raw" is not	Comment type changed to "T"
SuggestedRemedy				Terminology:
Strike both instance of '	"tx_raw" (here and on pg 12-	4 line 42).		inter-burst idle – a general reference to a region or time interval between bursts. In MCRS,
Response ACCEPT.	Response Status C			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 require	d ER/editorial required GR/	deneral required	T/technical F/editorial	
•	patched A/accepted R/reje	. .		written C/closed U/unsatisfied Z/withdrawn SC 142.2.1 8/4/2019 8:18:18

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.

C/ 142	SC	142.2.2	P	110	L 36	# 268
Kramer, G	len		Broa	dcom		
Comment	Туре	TR	Comment Status	5 A		
"In the bits of	OLT, a	at the begi	value of IBI_EQ, i.			ized with the lower 5 as shown in Figure
			to IBI_EQ (143.3.3. nd so, the low 58 b			(Value: 0x0A-0A-0A- 4-0A-0A-0A-FF
the sci should 0x2-85	ramblei I be the 5-42-A1	r ever sees 64B/66B -50-28-14	s only the 64b/66b e encoded IBI_EQ, th	encoded nen it wou	blocks. So, if we uld have the follo	ue of IBI_EQ, becaus assume that the see wing value:
	d const		an unnecessarily in nall clarify the value			eeds to be a pre- becify a 58-bit seed
Suggested	Remed	dy				
"In the	ONU, F-FF-FF	at the beg		t, the scr		ed with the value of set to 1 (see Figure
"In the	OLT, a	at the begi		, the des		ized with the value o set to 1 (see Figure
Response			Response Status	С		
ACCE	PT IN F	PRINCIPL	≣.			
"In the	ONU,	at the beg		t, the scr		ed with the value of o 1 (see Figure 49–8)
"In the	OLT, a	at the begi		, the des		ized with the value o o 1 (see Figure 49–8)

C/ 142 SC 142.2.2 Page 43 of 103 8/4/2019 8:18:18 AM

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	P 110	L 40	# 451	C/ 142 S	C 142.2.4.1	P112	L 4	# 140
Nicholl, Shawn	Xilinx			Remein, Duane	e	Futurewei Teo	chnologies, Inc.	
Comment Type T	Comment Status A			Comment Type	Е	Comment Status A		bucket
SuggestedRemedy Replace "four consecuti	he four input blocks to the travel of the tr			in italics. S "S", "P", "N "i", and "k"	ame for othe I", "N", "Nma (in K+1) sca	composed by a" and "Ai, er occurrences in these term x", "R", "Rmax", "u", "u1", "u tter throughout the text and F 142–13—FEC decoder.	s, "ai,j", "(I,j)", "⊢ 2", "uK", "p", "p1'	lc", "Z", "́K", "Kmax", ", "p2", "pM", "T", "c",
Response ACCEPT.	Response Status C			SuggestedRem per comme	-			
This is a technical comr	nent. Type changed to "T"			Response		Response Status C		
C/ 142 SC 142.2.4.1	P 112	L1	# 139	ACCEPT.		Response Status		
Remein, Duane		hnologies, Inc.		C/ 142 S	C 142.2.4.1	P112	L13	# 31
Comment Type E	Comment Status A		bucket	Hajduczenia, M	larek	Charter Comr	nunications	
In most cases we use "p omit the hyphen. We sh	parity-check" (with a hyphen)	. Here and in a	a few other locations we	Comment Type		Comment Status A		can-vs-may
SuggestedRemedy				"can" used	and not inter	nded per Style Guide		
	stances of "parity check" with	"narity-check"		SuggestedRem				
pg line	stances of pairty check with	panty check .		Change "T	ne parity-che	ck matrix can be described i	n its compact for	m" to "The parity-
112 1								
114 48						I		
				Response		Response Status C		
114 48 115 1 116 12 Response	Response Status C					I		
114 48 115 1 116 12 <i>Response</i> ACCEPT.		13	# [202]	Response		I		
114 48 115 1 116 12 Response ACCEPT. C/ 142 SC 142.2.4.1	P112	L 3	# 292	Response		I		
114 48 115 1 116 12 Response ACCEPT. C/ 142 SC 142.2.4.1 Wienckowski, Natalie	P112 General Motor	-	# 292	Response		I		
114 48 115 1 116 12 Response ACCEPT. C/ 142 SC 142.2.4.1 Wienckowski, Natalie Comment Type E Missing non-breaking sp	P112 General Motor Comment Status D baces in number that have 4	rs		Response		I		
114 48 115 1 116 12 Response ACCEPT. C/ 142 SC 142.2.4.1 Wienckowski, Natalie Comment Type E Missing non-breaking sp per 13.3.2 of the 2014 IB	P112 General Motor Comment Status D baces in number that have 4	rs		Response		I		
114 48 115 1 116 12 Response ACCEPT. C/ 142 SC 142.2.4.1 Wienckowski, Natalie Comment Type E Missing non-breaking sp	P112 General Motor Comment Status D baces in number that have 4 EEE-SA Style Manual.	rs		Response		I		

C/ 142 SC 142.2.4.1 Page 44 of 103 8/4/2019 8:18:18 AM

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Cl 142 SC 142.2.4.1 P114 L 39 # 442	Cl 142 SC 142.2.4.2 P114 L 49 # 293
Powell, William Nokia	Wienckowski, Natalie General Motors
Comment Type T Comment Status A	Comment Type E Comment Status D
Replace this note: "Editor's Note (to be removed prior to publication): Link to the CSV file containing machine	Missing non-breaking spaces in number that have 4 or more digits to the left of the decim per 13.3.2 of the 2014 IEEE-SA Style Manual.
readable files to be added here prior to publication."	SuggestedRemedy
SuggestedRemedy	Change: 14592
with: "Editor's Note - Later move this file to: http://standards.ieee.org/downloads/802.3/ "	To: 14 592 Also on P114 L54
Response Response Status C	
ACCEPT IN PRINCIPLE.	PROPOSED REJECT.
Change text of the editorial note to Editor's Note (to be removed prior to publication): At publication time, all machine readable	This comment was WITHDRAWN by the commenter.
files will be published under http://standards.ieee.org/downloads/802.3/ in a machine readable format.	C/ 142 SC 142.2.4.2 P114 L51 # 294
The aforementioned files are accessible right now at:	Wienckowski, Natalie General Motors
http://www.ieee802.org/3/ca/index.shtml	Comment Type E Comment Status D but
The same text to be used on page 249, line 50, and page 118, line 1	Missing non-breaking spaces in number that have 4 or more digits to the left of the decim
C/ 142 SC 142.2.4.1 P114 L 39 # 276	per 13.3.2 of the 2014 IEEE-SA Style Manual.
Marris, Arthur Cadence Design Systems	SuggestedRemedy
Comment Type ER Comment Status A	Change: 17664 To: 17 664
Delete "Editor's Note (to be removed prior to publication): Link to the CSV file containing	Proposed Response Response Status Z
machine readable files to be added here prior to publication."	REJECT.
SuggestedRemedy	
Delete "Editor's Note (to be removed prior to publication): Link to the CSV file containing machine readable files to be added here prior to publication."	This comment was WITHDRAWN by the commenter.
Similar problem on page 249 line 51.	
Response Response Status C	
ACCEPT IN PRINCIPLE.	
See comment #442	

C/ 142 SC 142.2.4.2 Page 45 of 103 8/4/2019 8:18:18 AM

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C/ 142 SC 142.2.4.	2 P114	L 53	# 295	C/ 142 SC	C 142.2.4.2	P116	L 5	# 379
Wienckowski, Natalie	General Moto	rs		Dawe, Piers		Mellanox		
Comment Type E	Comment Status D			Comment Type	TR Com	nment Status A		
5 5	spaces in number that have 4 I IEEE-SA Style Manual.	or more digits	to the left of the decimal			pi-1info. Similar pro	blem at line 9.	
SuggestedRemedy				SuggestedReme Explain or b	<i>edy</i> petter, use more fai	miliar notation		
Change: 14392 To: 14 392				Response		onse Status W		
Proposed Response	Response Status Z			,	I PRINCIPLE.			
PROPOSED REJECT				appand the	following contonco	to the end of the para	agraph on Daga 11	6 Linco 2 F · "ni(
	ITHDRAWN by the commente	r.		1) _{info u* to u''." an Lines 6-8: "µ}	represents and also append the pi _{parity<td>the de-interleaver ma following sentence to > represents the inte</td><td>apping of information the end of the par</td><td>on bits that permutes agraph on Page 116,</td>}	the de-interleaver ma following sentence to > represents the inte	apping of information the end of the par	on bits that permutes agraph on Page 116,
C/ 142 SC 142.2.4.	2 P115	L 5	# 296	permutes p'	' to p*."			
Wienckowski, Natalie	General Moto	rs		C/ 142 SC	C 142.2.4.2	P 116	L 7	# 380
Comment Type E	Comment Status D			Dawe, Piers		Mellanox		
Missing non-breaking per 13.3.2 of the 2014	spaces in number that have 4 I IEEE-SA Style Manual.	or more digits	to the left of the decimal	Comment Type What is the	T Com n interleaved? p" c	nment Status A or H?		
SuggestedRemedy				SuggestedRem	ədv			
Change: 16962 To: 16 962				?	2			
Proposed Response	Response Status Z			Response	Resp	onse Status C		
PROPOSED REJECT	'			ACCEPT IN	PRINCIPLE.			
				replace "ma	trix H. which is the	n" with "matrix H, and	p'' is then"	
This comment was W	ITHDRAWN by the commente	r.		· · ·	C 142.2.4.2	P116	L16	# 142
	2 <i>P</i> 116	L 5	# 141	Remein, Duane		-	chnologies, Inc.	# 142
Remein, Duane	-	chnologies, Inc.		Comment Type		ment Status A	g,	
Comment Type TR	Comment Status A	siniologico, ino		51	a bit confusing "the	e M-bit FEC parity bits	s"	
<i>,</i> ,	-1 power)"info(u*)" and (Pi)pari	tv(p")" mean?		SuggestedRem	edv			
SuggestedRemedy	· · · · · · · · · · · · · · · · · · ·	J(F)			the M FEC parity b	its" (M in italics)		
00	s term. Unfortunately I have no	o idea what suc	h a definition would be	Response		onse Status C		
so I can offer no inforr	med suggestions				PRINCIPLE.			
Response	Response Status C							
ACCEPT IN PRINCIP	LE.			"M bits of Fi	EC parity" is better			
See comment #379.								
TVDE: TR/toohnigol rogen	rad ER/aditorial required CR/		d T/tachaical E/aditatial				2	Dogo 46 of 102
•	red ER/editorial required GR/g lispatched A/accepted R/reject			0	nsatisfied Z/withdra	C/ 14 awn SC 14	2 2.2.4.2	Page 46 of 103 8/4/2019 8:18:18 AM

TYPE: TR/lechnical required ER/editorial required GR/genera	a required Thechnical Electional G/general	C/ 14Z
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 142.2
SORT ORDER: Clause, Subclause, page, line		

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	4.2 <i>P</i> 116	L18	# 381	C/ 142 SC 1	42.2.4.3	P116	L 25	# 382
Dawe, Piers	Mellanox			Dawe, Piers		Mellanox		
Comment Type E is comprised of	Comment Status A			Comment Type I don't know wi		Comment Status A n by "Omega networks".		
uggestedRemedy				SuggestedRemedy	/			
comprises				,		about. If it doesn't matte	er, don't mention t	them.
consists of contains				Response	R	esponse Status W		
is composed of or possibly other alte	ernatives			ACCEPT IN P	RINCIPLE.			
esponse	Response Status C			Add an informa	ative reference	ce to		
ACCEPT IN PRINCI	•			Lawrie. Dunca	n H. (Decem	ber 1975). "Access and A	Alignment of Data	in an Arrav
Use "comprises"				Processor". IE	EE Transact	ions on Computers. C-24 stamp/stamp.jsp?tp=&arr	(12): 1145–55.	,
/ 142 SC 142.2.4	4.3 P116	L 24	# 143	at the first inst	ance of Ome	ga network used as a ter	m	
emein, Duane	Futurewei Teo	chnologies, Inc.		C/ 142 SC 1	42.2.4.3	P116	L 29	# 144
omment Type T	Comment Status D			Remein, Duane		Futurewei Ter	chnologies, Inc.	
	hat the De-interleaver should ref	fer to encoding ar	nd the Interleaver to	Comment Type	E (Comment Status A	onnologioo, nio.	bucket
decoding as stated i "For the purposes be	n the following: ere: "De-interleaver" refers to the	e mapping from tr	ansmitted sequence			"De-interleaver", "de-inte	rleaver" "Interleav	
to encounty/decount	g sequence (including user and	parity) "Inte	erleaver" refers to the					ver, and interieaver.
mapping from encod	g sequence (including user and ling/decoding sequence to trans	parity) "Inte mitted sequence	erleaver" refers to the "	SuggestedRemedy	/			ver, and inteneaver.
mapping from encoc	g sequence (including user and ling/decoding sequence to trans	parity) "Inte mitted sequence	erleaver" refers to the "		/		neaver, menea	ver, and interieaver.
mapping from encoc	g sequence (including user and ling/decoding sequence to trans	parity) "Inte mitted sequence	erleaver" refers to the "	SuggestedRemedy	/ Change all t		neaver, intenea	ver, and interieaver.
mapping from encoc SuggestedRemedy Change to: "For the purposes he	ling/decoding sequence to trans	mitted sequence e mapping from tr	." ransmitted sequence	SuggestedRemedy Be consistent.	/ Change all t	o initial Caps	neaver, intenea	ver, and interieaver.
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequence	ling/decoding sequence to trans	mitted sequence e mapping from tr	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT.	/ Change all t	o initial Caps	L 48	
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent	ling/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity).	mitted sequence e mapping from tr	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT.	/ Change all t <i>R</i>	o initial Caps esponse Status C		# [<u>383</u>
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequence from encoding sequence	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence."	mitted sequence e mapping from tr	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1	/ Change all t <i>R</i> 42.2.4.3	o initial Caps esponse Status C P117		
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent proposed Response REJECT.	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence."	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type	/ Change all t <i>R</i> /42.2.4.3 TR (o initial Caps esponse Status C P117 Mellanox	L 48	# 383
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent proposed Response REJECT.	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know wi	42.2.4.3 TR (hat you mean	o initial Caps esponse Status C P 117 Mellanox Comment Status A	L 48	# 383
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent roposed Response REJECT. This comment was N	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know w Notation SuggestedRemedy	/ Change all t <i>R</i> / / / / / / / / /	o initial Caps esponse Status C P 117 Mellanox Comment Status A	L 48 ket; it is not explai	# 383
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent roposed Response REJECT. This comment was N	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know w Notation SuggestedRemedy	/ Change all t <i>R</i> / 42.2.4.3 TR (hat you mean / e notation ins	o initial Caps esponse Status C P 117 Mellanox Comment Status A n this partial square brack	L 48 ket; it is not explai	# 383
mapping from encode suggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent proposed Response REJECT. This comment was N	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know wi Notation SuggestedRemedy Use accessible	Change all t R 42.2.4.3 TR (hat you mean e notation ins R	o initial Caps esponse Status C P 117 Mellanox Comment Status A In this partial square brack	L 48 ket; it is not explai	# 383
mapping from encod uggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent proposed Response REJECT. This comment was N	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know wi Notation SuggestedRemedy Use accessible Response ACCEPT IN Piers	/ Change all t R /42.2.4.3 TR (hat you mean / e notation ins RINCIPLE.	o initial Caps esponse Status C P 117 Mellanox Comment Status A In this partial square brack	L 48 ket; it is not explai atever is meant.	# 383
mapping from encod SuggestedRemedy Change to: "For the purposes he to decoding sequent from encoding sequent Proposed Response REJECT. This comment was N	ding/decoding sequence to trans ere: "De-interleaver" refers to the ce (including user and parity). ence to transmitted sequence." <i>Response Status</i> Z WITHDRAWN by the commente	mitted sequence e mapping from tr "Interleaver" n	." ransmitted sequence	SuggestedRemedy Be consistent. Response ACCEPT. Cl 142 SC 1 Dawe, Piers Comment Type I don't know wh Notation SuggestedRemedy Use accessible Response ACCEPT IN Pl Add footnote u	/ Change all t R 42.2.4.3 TR (hat you mean / e notation ins RINCIPLE. under the form otation [] rep	o initial Caps esponse Status C P 117 Mellanox Comment Status A In this partial square brack stead: rounddown() or wh esponse Status W nula, as follows: (copied resents a floor function, w	L 48 ket; it is not explai atever is meant. from 77.2.2.4)	# 383

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/ 142	SC 142.2.4.3	P 118	L1	# 481	C/ 142	SC ·	142.2.4.3	P118	L1	# 277
Slavick, Je	ff	Broadcom			Marris, Art	hur		Cadence Des	sign Systems	
Suggested	s note states it sh	Comment Status A ould have been removed be	fore WG ball	machine-readable-files ot with URL	"Editor individ	ss the fo 's Note ual see				machine-readable-files ng WG ballot, content of ee.org/downloads/802.3/ in
Response		Response Status C			Suggested	Remed	ly			
	PT IN PRINCIPLE	Ξ.			"Editor individ	's Note ual see				ng WG ballot, content of ee.org/downloads/802.3/ in
C/ 142	SC 142.2.4.3	P118	L1	# 443	Response			Response Status C		
Powell, Wi	lliam	Nokia			ACCE	PT IN F	RINCIPLE	•		
	e this note:	Comment Status A		machine-readable-files	See co	omment	#442			
individ a macl	ual seed tables w nine readable	noved prior to publication): B ill be published under http://s			C/ 142 Lusted, Ke		142.2.4.3	P 118 Intel	L1	# 111
format	1				Comment	Туре	TR	Comment Status A		machine-readable-files
http://v [NEED	dual seed tables o ww.ieee802.org/ SEED TABLES		oads/802.3/]		https:// as of 3 <i>Suggested</i>	/standa 30 May 2 IRemed	rds.ieee.or 2019 ly	hat the machine readable f g/downloads.html. Howeve emove the editors note.		
Response		Response Status C			Response			Response Status C		
ACCE	PT IN PRINCIPLE	-			ACCE	PT IN F	RINCIPLE			
See co	omment #442				See co	omment	#442			

C/ 142 SC 142.2.4.3 Page 48 of 103 8/4/2019 8:18:18 AM

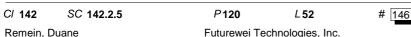
IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments

C/ 142 SC 142.2.4.3 P118 L1 # 103	C/ 142 SC 142.2.4.3 P118 L1 # 384
Anslow, Pete Ciena	Dawe, Piers Mellanox
Comment Type E Comment Status A machine-readable-files	Comment Type TR Comment Status A machine-readable-
The editor's note says that "Before entering WG ballot, content of individual seed tables will be published under http://standards.ieee.org/downloads/802.3/ in a machine readable format"	This says "Before entering WG ballot, content of individual seed tables will be published under http://standards.ieee.org/downloads/802.3/ in a machine readable format". But I don't see them there.
However, the draft is in WG ballot and the location http://standards.ieee.org/downloads/802.3/ is where files for published standards reside.	SuggestedRemedy Sort it out.
SuggestedRemedy	Response Response Status W
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	ACCEPT IN PRINCIPLE.
Response Response Status C	See comment #442
ACCEPT IN PRINCIPLE.	CI 142 SC 142.2.4.3 P118 L35 # 453
See comment #442	Nicholl. Shawn Xilinx
C/ 142 SC 142.2.4.3 P118 L1 # 145	Comment Type E Comment Status A
Remein, Duane Futurewei Technologies, Inc.	Are the hyphen's necessary in Tables 142-5, 142-6? Consider to remove them to be mo
Comment Type TR Comment Status A machine-readable-files	consistent with other tables in the standard (eg. Table 52-20, Table 115-1, Table 120-2)
The information per the Editorial note has not been published at the advertised URL. Liar, Liar pants on fire!	SuggestedRemedy Remove the hyphens from values in the tables 142-5, 142-6.
SuggestedRemedy	Response Response Status C
Post the seed tables at the advertised URL or Post the seed table at some other URL updating the Ed Note appropriately or change "Before entering WG ballot" to "Prior to	ACCEPT IN PRINCIPLE.
publication".	See comment #488
Response Response Status C	

C/ 142 SC 142.2.4.3 machine-readable-files

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Remein, Duane

Comment Type Т Comment Status A

Here we state "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." Elsewhere we state (pg/ln)

121/51 "The value of bit 257 being one implies that the 257-bit block has been transcoded and scrambled."

123/22 "a binary one indicating the 257-bit block originated in the PCS Input Process" 124/46 "A single bit indicating the accompanying 256B/257B block has been scrambled is appended to the block which is then stored in the InputFifo."

We should be consistent in what this bit indicates.

SuggestedRemedv

At 120/52 (pg/ln) change:

"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 these 258-bit block hold one line-coding unit (a 257-bit block) and bit 257 indicates the 257-bit block has been transcoded and scrambled (bit 257 is equal to 1) or that the block has not been transcoded and scrambled (bit 257 is equal to 1). 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 being one indicates that the 257-bit block has been transcoded and scrambled."

At 123/22 change:

"a binary one indicating the 257-bit block originated in the PCS Input Process" to: "a binary one indicating the 257-bit block has or has not been transcoded and scrambled."

At 124/46 change:

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

Response

Response Status C

ACCEPT IN PRINCIPLE.

At 120/52 (pg/ln) change:

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

"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:

"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	P1	21	L 14	# 454
Nicholl, SI	nawn	Xilinx			
Comment	Type E	Comment Status	R		
Value	is set to "0x3-CA	A". Seems like an un	conven	tional use of hyph	nen.
Suggested Repla	<i>IRemedy</i> ce "0x3-CA" with	"0x3CA"			
Response REJE		Response Status	С		

See comment #488

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

C/ 142 SC	142.2.5.1	P 121	L 30	# 488	C/ 142	SC 142	.2.5.2	P 122	L 26	# 330
₋aw, David		Hewlett Packa	ard Enterprise		Laubach,	Mark		Broadcom		
Comment Type	T Con	nment Status A		subscripts	Comment	Туре Е		Comment Status A		buck
		cript32' is unclear. Acc			Missin	ig crossref f	formatin	g for "142.1.1.5". Same fo	or line 41.	
		notation' 'Numerical v etation' and 'Numer			Suggested	dRemedy				
subscript ind	icate a hexadecin	nal interpretation of the	e corresponding r	number.'. This	Make	them into p	roper cr	oss references.		
		the 32 subscript indica this is meant to indica		mber, which I doubt is	Response			Response Status C		
	at convention is c		ile oxor repeated		ACCE	PT.				
SuggestedReme	dy				C/ 142	SC 142	.2.5.2	P123	L36	# 331
Specify the n	neaning of '0x0-(0	A)subscript32'.			Laubach,	Mark		Broadcom		
Response	Resp	oonse Status C			Comment			Comment Status A		buck
ACCEPT IN	PRINCIPLE.					ig period aff	ter "TxF	ifo"		
Renumber th	e existing sectior	142.1.1.2 into 142.1.	1.3 and insert the	following new section	Suggested	Remedy				
aa ahaum in	e e			0	ماد ام ۱۸					
as shown in			00000	o = 0710 K	Add th	ne period at	the end	l of the sentence.		
	ee802.org/3/ca/p	ublic/meeting_archive/	/2019/07/kramer_	3ca_5_0719.pdf	Response	•		l of the sentence. <i>Response Status</i> C		
http://www.ie	eee802.org/3/ca/p 142.2.5.1	ublic/meeting_archive/ P121	/2019/07/kramer_ <i>L</i> 33	3ca_5_0719.pdf # [455		·				
http://www.ie	0 1	<u> </u>			Response ACCE	PT.		Response Status C		# [117
http://www.ie	142.2.5.1	P121			Response ACCE Cl 142	PT. SC 142		Response Status C	L 3	# 147
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc	142.2.5.1 E Correction of 32 for the second	P 121 Xilinx nment Status A value of IBI258 and als	L 33	# 455 subscript	Response ACCE Cl 142 Remein, D	PT. SC 142 Duane	.2.5.3	Response Status C P 123 Futurewei Te	L 3 chnologies, Inc.	# [147
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous com	142.2.5.1 E Correction of 32 for the symmetry, need to de	P 121 Xilinx nment Status A	L 33	# 455 subscript	Response ACCE CI 142 Remein, E Comment	PT. SC 142 Duane <i>Type</i> T	.2.5.3	Response Status C P123 Futurewei Te Comment Status A	chnologies, Inc.	
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous corr SuggestedReme	E Con rept of 32 for the mment, need to de	P 121 Xilinx nment Status A value of IBI258 and als	L 33	# 455 subscript	Response ACCE CI 142 Remein, E Comment	PT. SC 142 Duane <i>Type</i> T	.2.5.3	Response Status C P 123 Futurewei Te	chnologies, Inc.	
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous com SuggestedRemen Possible rem	E Correction of 32 for the symmetry of 32 for the symmetry need to deal dy needies:	P 121 Xilinx mment Status A value of IBI258 and als fine/explain the notation	L 33 so PAR_PLACEH on.	# 455 subscript	Response ACCE Cl 142 Remein, E Comment It woul zero".	PT. SC 142 Duane <i>Type</i> T Id be a kind	.2.5.3	Response Status C P123 Futurewei Te Comment Status A	chnologies, Inc.	
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous corr SuggestedRemen Possible rem 1) Make a co above senter	142.2.5.1 E Correction of 32 for the symmetry of 32 for the symmetry need to deadly needies: nomment (similar to not e means"	P 121 Xilinx nment Status A value of IBI258 and als fine/explain the notation	L 33 so PAR_PLACEH on. nventions) that "T	# 455 subscript	Response ACCE Cl 142 Remein, D Comment It woul zero". Suggested	PT. SC 142 Duane <i>Type</i> T Id be a kind	.2.5.3 Iness to	Response Status C P123 Futurewei Te Comment Status A the reader to inform them	chnologies, Inc. why "The MSB o	of each cell is set to
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous com SuggestedRement Possible rem 1) Make a co above senter 2) Simply wri	E Concernment, need to de dy nedies: comment (similar to need ensernment	P 121 Xilinx nment Status A value of IBI258 and als fine/explain the notation of 49.2.4.1 Notation cor value without short-har	L 33 so PAR_PLACEH on. nventions) that "T	# 455 subscript	Response ACCE C/ 142 Remein, D Comment It woul zero". Suggested Add to	PT. SC 142 Duane <i>Type</i> T Id be a kind	.2.5.3 Iness to the ser	Response Status C P123 Futurewei Te Comment Status A the reader to inform them	chnologies, Inc. why "The MSB o	of each cell is set to
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous corr SuggestedRemen Possible rem 1) Make a co above senter 2) Simply wri Response	E Corrections for the second s	P 121 Xilinx nment Status A value of IBI258 and als fine/explain the notation	L 33 so PAR_PLACEH on. nventions) that "T	# 455 subscript	Response ACCE C/ 142 Remein, D Comment It woul zero". Suggested Add to	PT. SC 142 Duane <i>Type</i> T Id be a kind <i>Remedy</i> o the end of oded and s	.2.5.3 Iness to the sen cramble	Response Status C P123 Futurewei Te Comment Status A the reader to inform them	chnologies, Inc. why "The MSB o	of each cell is set to
http://www.ie Cl 142 SC Nicholl, Shawn Comment Type Use of subsc previous com SuggestedRement Possible rem 1) Make a co above senter 2) Simply wri	E Corrections for the second s	P 121 Xilinx nment Status A value of IBI258 and als fine/explain the notation of 49.2.4.1 Notation cor value without short-har	L 33 so PAR_PLACEH on. nventions) that "T	# 455 subscript	Response ACCE Cl 142 Remein, D Comment It woul zero". Suggested Add to transc Response	PT. SC 142 Duane <i>Type</i> T Id be a kind <i>Remedy</i> o the end of oded and s	.2.5.3 Iness to the sen cramble	Response Status C P123 Futurewei Te Comment Status A the reader to inform them there " indicating the 257- ed." Response Status C	chnologies, Inc. why "The MSB o	of each cell is set to

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	P 124	L11	# 148	C/ 142 SC 142.2	.5.4.3	P 125	L17	# 149	
Remein, Duane	Futurewei Tec	hnologies, Inc.		Remein, Duane	Fu	uturewei Tec	hnologies, Inc.		
	Comment Status A block v" in italics? It doesn't 22, & 34 ("a[4]" in this case).	appear to be.	bucket	Comment Type E Missing "the", "a", o	Comment Stat or "an"	tus A			bucke
SuggestedRemedy Ensure the "v" is italicize				SuggestedRemedy Change "not transmitting, la "not transmitting, th	aser is turned on" to ne laser is turned on"				
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Stat	us C			
C/ 142 SC 142.2.5.4.	1 <i>P</i> 126	L 36	# 104			Die	/ 07	"	
Anslow, Pete	Ciena			C/ 142 SC 142.3		P 125	L 37	# 333	
Comment Type E The PROCESS_DATA = operator" as per the first	Comment Status A state contains 4 instances of t two rows	"<=" that should	bucket be the "Assignment	Laubach, Mark <i>Comment Type</i> E The first of the hyp	Br <i>Comment Stat</i> en-bullet lines ends in		e other two do n	ot (lines 38 and	bucke 39).
SuggestedRemedy In the PROCESS_DAT/ per the first two rows Response ACCEPT.	A state change 4 instances o Response Status C	f "<=" to the "Ass	signment operator" as	Response ACCEPT IN PRINC		· · · ·	ate) line ending f	for all three lines	i.
7 142 SC 142.2.5.4.	2 P125	L 5	# 332	Remove "." at the e					
aubach, Mark	Broadcom			C/ 142 SC 142.3		P 125	L 38	# 151	
omment Type E	Comment Status A		bucket	Remein, Duane	Fu	uturewei Tec	hnologies, Inc.		
The hypen for the line b	reak looks awkward.			Comment Type TR No such beast in F	<i>Comment Sta</i> i igure 142-2 "PCS Syr		rocess"		
uggestedRemedy		2		SuggestedRemedy					
				Change Figure 142	2 block title from				
Suggest making PAR_F	Response Status C				ion & Receive Proces	ss" to			
Response				"PCS Synchronizat "PCS Synchronizer	ion & Receive Proces		ch the figure 17x		
Suggest making PAR_F Response				"PCS Synchronizat "PCS Synchronizer	ion & Receive Proces Process"	e text to mate	ch the figure 17x		
Suggest making PAR_F Response				"PCS Synchronizat "PCS Synchronizer This is deemed eas	ion & Receive Proces Process" sier than changing the <i>Response Stat</i>	e text to mate	ch the figure 17x		

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

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

 SORT ORDER: Clause, Subclause, page, line
 Communication
 So
 Communication

C/ 142 SC 142.3 Page 52 of 103 8/4/2019 8:18:18 AM

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C/ 142 SC 142.3	P 125	L 38	# 150	C/ 142	SC 142	3.1	P 126	L 20	# 484
Remein, Duane	Futurew	ei Technologies, Inc.		Slavick, Je	eff		Broadcom		
Comment Type TR	Comment Status A			Comment	Туре Т	2	Comment Status R		
No such beast in Fig	ure 142-2 "PCS BER Mon	itor Process (see 14	2.3.5.6)".				from NEXT_VECTOR has a		
SuggestedRemedy							mes RATE_ADJ_EQ both t id RESET_XBUF would be		
Change	or Process (see 142.3.5.6)	" to		Suggested	Remedy				
"— FEC Decoder (s		10		Resolv	ve the confl	ct			
Response	Response Status C			Response			Response Status C		
ACCEPT IN PRINCI	PLE.			REJE	CT.		, -		
The Figure 142-2 is http://www.ieee802.c	updated per org/3/ca/public/meeting_ar	chive/2019/07/krame	er_3ca_3_0719.pdf (see	state o idles (diagram is p IBI_EQ) are	reclude transm	for the state diagram 142-1 d by the higher layer (see N itted when there is no data be succeeded by data EQ.	ACRS, Figure 1 to transmit. W	43-12). The inter-burst nen data finally
C/ 142 SC 142.3.1	P 125	L 43	# 152				s (i.e., after one FEC code		
Remein, Duane	Futurew	ei Technologies, Inc.		never	directly follo	w the I	BI_EQ.		
Comment Type T	Comment Status D			C/ 142	SC 142	3.1.1	P 126	L1	# 456
Does the FEC decor	der really interleave?			Nicholl, SI	nawn		Xilinx		
SuggestedRemedy				Comment	Туре Е		Comment Status A		redra
At line 43 Change "interleaver/de-interle "de-interleaver data				standa	ard. This inc	ludes "I	ms appears different from n Figure 142-10 PCS Input Pr ate Diagram" and others.		
Change title of section	on 142 2 1 1 from:			Suggested	Remedy				
"Receive Interleaving				Updat	e the state	diagram	is to look more like other sta	ate diagrams in	the standard
"Receive De-interlea	ving"			Response			Response Status C		
Proposed Response	Response Status Z				PT IN PRIN		,		
REJECT.				_					
This comment was V	VITHDRAWN by the comm	nenter.		See c	omment #9	3			
Yes, it does interleav	ve. See the referenced pict	ture.							
100, it does intelleav									

C/ 142 SC 142.3.1.1

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C/ 142 SC 142.	3.1.1	P 126	L 2	# 486	C/ 142	SC 142.3.1.	1 P126	L 36	# 495
₋aw, David		Hewlett Packa	ard Enterprise		Brandt, David		Rockwell Au	tomation	
Comment Type T	Comment S	Status A			Comment Typ	e E	Comment Status A		post-deadline; bucket
The variable BEG	N is not defined.				Four inco	rrect symbol	ls are used.		
SuggestedRemedy					SuggestedRe	medy			
Add the following BEGIN TYPE: Boolean	variable definition to	o subclause 14	2.2.5.2.		xBuffer[0] xBuffer[1]	<= Scramb <= Scramb	operator" symbol instead of "- le(xBuffer[0]) le(xBuffer[1]) le(xBuffer[2])	<=" in the follow	ving 3 assignments:
Description: This v diagram. It is set to				ctional block state	xBuffer[3]		le(xBuffer[2]) le(xBuffer[3])		
Response	Response S				Response ACCEPT.		Response Status C		
ACCEPT IN PRIN					C/ 142	SC 142.3.2	P 126	L 49	# 457
add the following add entry for BEG			2.2.5.2. In every	"Variable" section,	Nicholl, Shaw		Xilinx		
BEGIN TYPE: Boolean					Comment Typ Consider		Comment Status A at the four output blocks from the four o	the transcoder a	are still scrambled.
Description: This v				ctional block state is reset to false on	SuggestedRei Replace "	2	utive 66-bit" with "four consec	utive scramble	d 66-bit"
		D (00	1.00	"	Response		Response Status C		
C/ 142 SC 142.	3.1.1	P126	L36	# 487	ACCEPT.				
aw, David		Hewlett Packa	ard Enterprise		This is a t	echnical co	mment. Changed type to "T"		
Comment Type E The Assignment o two separate syml			21-1 should be	<i>bucket</i> used rather than the					
SuggestedRemedy									
Replace the four in state in Figure 142		h the Assignme	ent operator in th	e PROCESS_DATA					
Response	Response S	Status C							

C/ 142 SC 142.3.2

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	.3 P 128	L 34	# 153	C/ 142	SC 142.3.5.2	P 132	L14	# 154
Remein, Duane	Futurewei Teo	chnologies, Inc.		Remein, D	Duane	Futurewei	Technologies, Inc.	
Comment Type TR	Comment Status A			Comment	Туре Т	Comment Status A		
	onfusing at best and possibly mis			Do we	test FEC CWs of	r decode them?		
	escrambler is initialized with the s[0] through s[57] as shown in Fi			Suggested	lRemedy			
First off there are no after the descramble what is the reader to	o s[x] bits in the Fig 142-14. The er. The "i.e., i.e., bits s[0] throug o do) to be the individual bits of S	Š[x] _Bytes_ show of s[57]" if assu S0S7 implies that	wn in Fig 142-14 are Imed (a bad idea but at the descrambler is	"a new		word is available for testin word is available for deco		
initialized with what	ever happens to be in the registe	r after receiving S	BD. This is unlikely	Response		Response Status C		
142-14.	EQ is a clearly defined constant a	ind needs no quai	incation from Figure	ACCE	PT IN PRINCIPL	E.		
SuggestedRemedy)) through of 571 on about in Figu	vro 142 14 "		Comm	ent type change	d to "T"		
-	0] through s[57] as shown in Figu	16 142-14		Chang	je (2x in para)			
Response ACCEPT IN PRINC	Response Status C CIPLE.					word is available for testin word is available for testin	0	or Process"
See comment #268	ł			C/ 142	SC 142.3.5.2	P 132	L 38	# 155
C/ 142 SC 142.3.	.5.1 <i>P</i> 131	L14	# 297	Remein, D	Duane	Futurewei	Technologies, Inc.	
-	General Moto		# 237	Comment	Туре Т	Comment Status A		
Wienckowski, Natalie	Comment Status D	15		Well c	lose. MatchCour	nt doesn't track all matche	s only those before t	he ONU is in sync
Comment Type E	space in number that have 4 or	more digite to the	left of the desired	Suggested	Remedy			
per 13.3.2 of the 20	14 IEEE-SA Style Manual, not a		lient of the decimal	Chang	le:	e number of consecutive s	uccessful detections	of FEC codeword
SuggestedRemedy				delimit	ters (FEC_CW_C	ELIM)." to		
Change: 16,962 To: 16 962				delimit	ters (FEC_CW_C	e number of consecutive s DELIM) while the ONU is n		
Proposed Response	Response Status Z				boundary."	-		
PROPOSED REJE		_		Response ACCE		Response Status C		
This commont was	WITHDRAWN by the commente	4.		C/ 142	SC 142.3.5.2	P133	L 2	# 156
This comment was								
This comment was				Remein. D	Duane	Futurewei	Technologies. Inc.	
This comment was				Remein, D Comment			Technologies, Inc.	bucket
This comment was				<i>Comment</i> Persis	Туре Е	Comment Status A	Technologies, Inc.	bucket
This comment was				<i>Comment</i> Persis	<i>Type</i> E tent- il crosses the line	Comment Status A	Technologies, Inc.	bucket
This comment was				Comment Persis FecFa Suggested	<i>Type</i> E tent- il crosses the line	Comment Status A	Technologies, Inc.	bucket
This comment was				Comment Persis FecFa Suggested	<i>Type</i> E tent- il crosses the line <i>IRemedy</i>	Comment Status A	Technologies, Inc.	bucket
This comment was				Comment Persis FecFa Suggestec per co	<i>Type</i> E tent- il crosses the line <i>IRemedy</i> mment	Comment Status A	Technologies, Inc.	bucket

SORT ORDER: Clause, Subclause, page, line

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

C/ 142 SC 142.3.5.2	P133	L 29	# 457	C/ 142 SC	142.3.5.3	P133	L 51	# 450
			# 157		142.3.5.3		• •	# 159
Remein, Duane	Futurewei Tec Comment Status A	nnologies, inc.		Remein, Duane	F Cor	mment Status A	chnologies, Inc.	huslad
Comment Type TR	y not true (see 142.1.3.1) "Or	co provisionad th	is value doos not	Comment Type	_		27 instances of a	bucket decode (or some form
	as constant by the state diagra			of decode).		e-county . There are		
SuggestedRemedy Strike.				SuggestedRemed Remove the h	-			
Response ACCEPT.	Response Status C			Response ACCEPT.	Resp	oonse Status C		
C/ 142 SC 142.3.5.2	P 133	L35	# 158	C/ 142 SC	142.3.5.3	P134	L 5	# 358
Remein, Duane	Futurewei Tec	hnologies, Inc.		Hajduczenia, Mar	ek	Charter Com	munications	
Comment Type E	Comment Status A		bucket	Comment Type	TR Cor	nment Status A		
SuggestedRemedy per comment Response ACCEPT.	Response Status C			Looking at Fig generates the	ure 142–16, this output of Outpu relationship is n	of this intrinsic to the para function is just called tFifo since that is what to described anywhere	d, but then I guess at is used as input	it is assumed that it data stream in Figure
C/ 142 SC 142.3.5.2	P134	L 25	# 386			d between state diagra OutputFifo explicitly	ams, it is recomm	ended to make
Dawe, Piers Comment Type TR What PMA_UNITDATA SuggestedRemedy	Mellanox <i>Comment Status</i> A .indication primitive?		РМА	RX_FULL_CV RX_SHORT_ definition of F	V state in Figure CW in Figure 14 ecDecode functi	atement "OutputFifo.A 142–16 and Figure 14 2–15 + Add the follow on. "On completion of series of 257-bit block	42–15, as well as ring statement at t the FEC decodin	in state he end of the g operation, the
I could not find the PM	A service interface definition.	Add it.		Ontion two (le	ss explicit): add	only statement in defi	inition of FecDeco	de function as
Response ACCEPT IN PRINCIPL	Response Status W E.			follows: "On c series of 257-	ompletion of the bit blocks appen	FEC decoding operat ded to the OutputFifo. wo state diagrams via	tion, the FecDeco ." - this option still	de function returns a requires a reader to
Insert	12/00/public/mosting croting	2010/07/10	200 20 0710 54	Response	Res	oonse Status C		
ahead of existing 142.4	/3/ca/public/meeting_archive/ .1 and renumber existing sub			ACCEPT IN F	RINCIPLE.			
needed.				Change name	of "FecDecode	" function to "PassToF	FecDecoder" in tex	xt and SDs.

C/ 142 SC 142.3.5.3 Page 56 of 103 8/4/2019 8:18:18 AM

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C/ 142	SC 142.3.5.3	P 134	L 25	# 160		C/ 142	SC	142.3.5.4	P 135	L 15	# 485
Remein, D	Juane	Futurewei Tech	nologies, Inc.			Slavick, Je	eff		Broadcom		
Comment	Туре Е	Comment Status A			bucket	Comment	Туре	TR	Comment Status R		
_	UNITDATA.indica le_group<256:0>	tion() crosses the line and shouldr	n't						from GET_NEXT_BLOCK h and are both true which path		exit criteria. If
Suggestea	lRemedy					Suggested	Remed	ly			
per co	mment					Chang	e the p	ath to CHE	CK_CW_LEN to be "!Signal	Fail AND Mate	hfound"
Response		Response Status C				Response			Response Status U		
ACCE	PT.					REJEC	CT.				
C/ 142 Laubach, I	SC 142.3.5.4	P 134 Broadcom	L 36	# 334					plicate this transition in the S kes, it will end up in the sam		rdless of which of the
Comment		Comment Status A			bucket	C/ 142	SC	142.3.5.7	P136	L 45	# 163
Missin	g period, end of la	st sentence of paragrpah.				Remein, D	uane		Futurewei Tec	nnologies, Inc	
Suggestea	IRemedy					Comment	Туре	Е	Comment Status A		bu
Add th	e period.					Missin	g "the"				
Response		Response Status C				Suggested	Remed	ly			
ACCE	PT.					Chang	e "of O	utput Proce	ess" to "of the Output Proces	s"	
C/ 142	SC 142.3.5.4	P135	L13	# 357		Response			Response Status C		
Hajduczen	ia, Marek	Charter Comm	unications			ACCE	PT.				
Comment	Type TR	Comment Status A				C/ 142	SC	142.3.5.7	P137	L 4	# 164
PCS_E	BLK_SZ is not def	ined right now and it does no	seem like we	have any .		Remein, D	uane		Futurewei Tec	nnologies, Inc	
Suggestea	Remedy					Comment	Туре	Е	Comment Status A		bu
PCS_E	BLK_SZ	ple definition in XXX would su	uffice			Figure touch I		clean-up;	Block divider line overrun blo	ock boundaries	s, connectors often do
		SLK_SZ constant holds the size	te of the PCS of	lata block.		Suggested per co	<i>Remec</i> mment	ly			
Response		Response Status C				Response			Response Status C		
ACCE	PT IN PRINCIPLE	, L				ACCE	PT.				
Type:	257	SLK_SZ constant holds the size	ze of the PCS c	data 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 142.3.5.7

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C/ 142 SC 142.3.5.7 P137 L42	# 368	C/ 142 SC 142.4.1	P137	L 3	# 387
lajduczenia, Marek Charter Communications		Dawe, Piers	Mellanox		
omment Type TR Comment Status A		Comment Type TR	Comment Status A		
in Figure 142-18, PayloadLeft variable is initialized in WAIT_FOF FEC_PAYLOAD_SIZE constant, defined in 142.2.5.1 as 56 units		•	definition of "differential enco	ding".	
PayloadLeft is, however, decremented every 72 bit-block in OUT		SuggestedRemedy			
which means it runs 4 times faster than expected. It will lead to e			ding: What is it for? When is		
ahead of time, and termination of the FEC payload decoding pro	cess prematurely.		d Yi bits, 257-bit vectors, or v u mean by a + in a circle.	what? what is R	egister - a r-bit
SuggestedRemedy		Response	Response Status W		
Move "PayloadLeft" operation from OUTPUT_72B_BLOCK to where it will be counting in 257-bit blocks recovered from FEC pa expected		ACCEPT IN PRINCIPL	E.		
Response Response Status C			(twice) interchangeably for o		
ACCEPT IN PRINCIPLE.			ure 142-20). The more comr will be removed from subse		
		=> replace "precoding"	with "differential encoding" in		
Changes per comment. Also, we need to move FEC_PAYLOAD 142.3.5.1 and just reference back to 142.2.5.1, as it was done fo constant.		- Subclause 142.4.2 - Figure 142-20			
C/ 142 SC 142.4 P137 L53	# 385		be added to 142.4 as follows d some guidelines on usage		definition of
Dawe, Piers Mellanox					
Comment Type TR Comment Status A	PMA	142.4 Nx25G-EPON PM "The PMA includes a de	//A ownstream differential encod	ling option at the s	erial bit rate (output
Missing text		bits represent changes	to succeeding input values r	ather than respect	to a given
SuggestedRemedy		reference). This encodi	ng technique facilitates the u	ise of lower bandw	idth receivers."
Introduce / summarise the PMA		(3) Implement changes	to Figure 142-19 and Figure	142-20 as shown	in
Response Response Status W			3/ca/public/meeting_archive	/2019/07/powell_3	ca_1a_0719.pdf
ACCEPT IN PRINCIPLE.		(changed marked in rec			
See comment #386.		C/ 142 SC 142.4.1	P 138	L 3	# 165
		Remein, Duane	Futurewei Te	chnologies, Inc.	
		Comment Type T	Comment Status A		
		What is an "OLT TX PN	1A"?		
		SuggestedRemedy Change to "OLT transm	iit PMA"		
		Response	Response Status C		
		ACCEPT IN PRINCIPL			
			mented in the OLT TX PMA smit path of OLT PMA". Upo		
YPE: TR/technical required ER/editorial required GR/general requi	red T/technical F/editorial G/c	ieneral	C/ 14	2	Page 58 of 10

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C/ 142
SC 142.4.1
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C/ 142 SC 142.4.1	P 138	L 4	# 166	C/ 142	30	142.4.2	P 138	L10	# 168	
Remein, Duane	Futurewei Te	chnologies, Inc.		Remein, E	Duane		Futurewei Teo	hnologies, Inc.		
Comment Type T Co This sentence is poorly word "Differential encoding is optio		ne control bit in the	e register, as defined		ge "RX"	E to "receive	Comment Status A e"			bucket
in Clause 45 register 1.29.15				Suggested		•				
SuggestedRemedy					omment					
Change "Differential encoding is option in Clause 45 register 1.29.15			e register, as defined	Response ACCE			Response Status C			
"Use of differential encoding 45.2.1.23a.2) to a one enable	is optional. Setting the		it 1.29.15 (see	C/ 142		142.4.2	P138	L11	# 169	
,	sponse Status C			Remein, I				hnologies, Inc.		
ACCEPT IN PRINCIPLE.				Comment Clause		E es not con	Comment Status A ntain "ONU registers"			bucket
Comment type changed to "	Γ"			Suggested	dRemed	ły				
Change "Differential encoding is option in Clause 45 register 1.29.15 to		ne control bit in the	e register, as defined	"mapp	bed to C bed to C		ONU register 1.29.15" to register bit 1.29.15 (see 45.2.	1.23a.2)"		
"The use of differential enco 45.2.1.23a.2) to a one enabl			ol bit 1.29.15 (see	Response ACCE			Response Status C			
C/ 142 SC 142.4.2	P 138	L 9	# 167	C/ 142	SC	142.4.2	P138	L12	# 335	
Remein, Duane		chnologies, Inc.		Laubach,	Mark		Broadcom			
51	omment Status A			Comment	Туре	Е	Comment Status A			bucket
What is an "OLT RX PMA fu	nction"?			Missir	ng perio	d, end of la	ast sentence of paragraph.			
SuggestedRemedy				Suggested	dRemed	ły				
Change: "Differential decoding shall b	a implemented in the C		tion on shown in	Add th	ne perio	d.				
Figure 142–20." to "Differential decoding shall b receive PMA."				Response ACCE			Response Status C			
Response Re	sponse Status C									
ACCEPT IN PRINCIPLE.										
Still not good. What is "ONU	transmit PMA for dowr	nstream"?								
Replace "shall be implement	in the ONUL DMA D	(function" with "o	hall ha implemented							

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 142.4.2 Page 59 of 103 8/4/2019 8:18:18 AM

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C/ 142	SC 142.4.4.1	P138	L13	# 170	C/ 142A SC	ີ 142A.1	P 249	L 51	# 445
Remein, D	uane	Futurewei Teo	chnologies, Inc.		Powell, William		Nokia		
Comment 1	Гуре Е	Comment Status A		bucket	Comment Type	TR	Comment Status A		
Per Cla	ause 1.5 CDR me	an clock and data recovery i	not clock data rec	overy	Replace this				
Suggestedl per cor					readable file	es to be ad	moved prior to publication): Lir ded here prior to publication."	k to the CSV	file containing machine
		Desmana Clature			SuggestedReme	ədy			
Response ACCEF	PT.	Response Status C					PC test vectors can be found at y/3/ca/private/machine-readable		est vectors zin in
C/ 142 Remein, D	SC 142.5.5.4	P 135 Euturewei Teo	L 2 chnologies, Inc.	# 161	machine rea	adable form			
Comment 7		Comment Status A	inologies, inc.	redraw	Response		Response Status C		
	51	archable in pdf files (i.e., are	imported from sor		ACCEPT IN	-	.E.		
Suggestedl	Remedv				See comme	nt #442.			
00		ative drawing format if not alr	eadv so.		C/ 142A SC	C 142A.2	P 249	L 37	# 270
Response		Response Status C	,		Kramer, Glen		Broadcom		
,	PT IN PRINCIPLE	•			Comment Type Caption nun	E nber is mis	Comment Status A sing "14". Just says "2A.2"		bucke
See co	mment #98				SuggestedReme	edv			
C/ 142	SC 142.5.5.5	P135	L 37	# 162	Add missing	•			
Remein, D	uane	Futurewei Tec	chnologies, Inc.		Response		Response Status C		
Comment 1	Гуре Т	Comment Status A			ACCEPT.				
		ite accurate "In the ONU, ds are disallowed."				0 142A.2	P 249	L 37	# 482
Suggestedl	Remedy				Slavick, Jeff		Broadcom		
	ONU, shortened	FEC codewords are disallow			Comment Type The sub-cla	E sue shows	Comment Status A as "2A.2" instead of 142A.2		bucke
	UNU receive pat	h, shortened FEC codewords	s are disallowed."		SuggestedReme	edy			
Response		Response Status C			Fix it				
ACCEF	PT.				Response		Response Status C		

C/ 142A SC 142A.2

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CI 142A	SC 142A.2	P 249	L 37	# 110	C/ 143	SC	143.1	P143	L 6	# 259
Anslow, Pet	e	Ciena			D'Ambros	ia, Johr	า	Futurewei, U.	S. Subsidiary of	Huawei
Comment Ty	ype E	Comment Status A		bucket	Comment	Туре	TR	Comment Status A		
The hea	ding "2A.2 QC	-LDPC FEC Encoder Test Ve	ctors" should be	e "142A.2" not "2A.2"				liation Layer introduced - note		
SuggestedR	Remedy							re is no definition provided in function that reconciles the s		0
	eading "2A.2 Q	C-LDPC FEC Encoder Test \ style AH1,A.1)	'ectors" change	"142A.2" to "2A.2"	Indep Subla	endent l yer (PL		(MII) to the specific Media Ac		
Response		Response Status C			definit	ions.				
ACCEP	т.				Suggestee	dRemea	dy			
C/ 142A	SC 142A.2	P 249	L 51	# 483				n to 1.4 Multi-Channel Recon s the signals at a specific Med		rovide a mapping
		Broadcom	231	# 403				(MII) to a specific Media Acce		C)-Physical Signaling
Slavick, Jeff				hundred		<i>,</i> ,	S) service	e		, , , , , ,
Comment Ty machine		Comment Status A		bucket	definit Actior		ange text	in 143.1 -This clause describe	es the Multi-Cha	annel Reconciliation
SuggestedR								ch enables multiple MACs to		
Fix it	lenneay				to	ace with	multiple	Physical Layers.		
Response		Response Status C						the Multi-Channel Reconciliat	ion Sublayer (N	ICRS) which enables
•	T IN PRINCIPL	,				le MAC	s to multiple	MII's		
	_				Response		manipio	Response Status C		
	text of the edit	orial note to noved prior to publication): At	nublication tim	a machina readabla	•		PRINCIPI	-		
files will	· ·		publication				-			
		standards.ieee.org/downloads						n to 1.4 "Multi-Channel Recor		
Tables a	are accessible i	right now at: http://www.ieee8	02.org/3/ca/inde	ex.shtm	İnterfa	ace (xMI		nction that reconciles the sign pecific Media Access Control (ns."		
								in 143.1 -This clause describe ch enables multiple MACs to in		

to This clause describes the Multi-Channel Reconciliation Sublayer (MCRS) which enables multiple MACs to interface with multiple xMIIs.

C/ 143 SC 143.1

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

C/ 143 SC 143.1	P 143	L37	# 258	C/ 143 SC 143.2.	4.4 P147	L 2	# 261
D'Ambrosia, John	Futurewei, U.S	S. Subsidiary of	Huawei	D'Ambrosia, John	Futurewei	, U.S. Subsidiary o	of Huawei
Comment Type E	Comment Status A			Comment Type ER	Comment Status R		
The figure is not con text associated with	sistent with other similar figures the MII is illegible.	as noted in oth	er comments, and the		ig 143-3. See IEEE-SA Style and line drawings should be		
SuggestedRemedy				-	P 152		
redraw figure to be c	consistent with diagrams such as	56-1, 56-2, 56-	-3, 56-4.	SuggestedRemedy			
Response	Response Status C			Save diagram in bla			
ACCEPT IN PRINCI	PLE.			Response REJECT.	Response Status U		
0 1	asizes the purpose of Clause 14	, 0	RS function.	Color is not needed	to interpret data and not refe	erenced in text in a	any way
The text associated	with the MII will be made more le	egible.		C/ 143 SC 143.2.	5 P148	L 2	# 496
C/ 143 SC 143.2.4	4.2 P145	L 23	# 32	Brandt, David	Rockwell	Automation	
lajduczenia, Marek	Charter Comn	nunications		Comment Type E	Comment Status A		post-deadline; buck
Comment Type ER	Comment Status A		can-vs-may	51	I axis label has characters ov	verlapping.	
"can" used and not in	ntended per Style Guide			SuggestedRemedy		11 0	
SuggestedRemedy					prevent characters from over	lapping.	
Change "and can co partial frames"	ntain at most two partial frames	to "and may co	ontain at most two	Response	Response Status C	ррЭ.	
Response	Response Status C			ACCEPT.			
ACCEPT.				C/ 143 SC 143.2.	5 P148	L 33	# 33
C/ 143 SC 143.2.4	1.4 P146	L 40	# 336	Hajduczenia, Marek	Charter Co	ommunications	
_aubach, Mark	Broadcom	240	<i>"</i> 330	Comment Type ER	Comment Status R		can-vs-ma
Comment Type E	Comment Status A		bucket	"can" used and not	intended per Style Guide		
51	prest green. Same for Page 154	line 52 for "46		SuggestedRemedy			
SuggestedRemedy	Steel groon. Guine for Fuge 104	,		Change "can achiev instantaneous trans	ve an instantaneous transmis mission rate of	sion rate of" to "m	ay achieve an
Make it so.				Response	Response Status C		
Response	Response Status C			REJECT.	Response Status		
ACCEPT.				"Can" (i.e., "is able" permitted") is sema	or "is capable") is correct and ntically wrong here	d is intended. "Ma	y" (i.e., "is allowed" or "is

C/ 143 SC 143.2.5

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C/ 143 SC 143.2.5	5.2 P149	L 25	# 34	C/ 143 SC 143.3.	1 P 153	L 26	# 497
Hajduczenia, Marek	Charter Com	munications		Brandt, David	Rockwell Au	tomation	
Comment Type ER	Comment Status A		can-vs-may	Comment Type T	Comment Status A		post-deadline
"can" used and not ir	ntended per Style Guide			Index is incorrect.			
SuggestedRemedy				SuggestedRemedy			
0	g variability can accumulate in nulate in the sublayers"	the sublayers" to	"Other timing	Change: "TXC[N]<3	:0>", To: "TXC[N-1]<3:0>"		
Response	Response Status C			Response	Response Status C		
ACCEPT.	Response Status C			ACCEPT.			
				This is a technical c	omment, type changed to "T"		
C/ 143 SC 143.3.1		L 5	# 171	C/ 143 SC 143.3.	1 <i>P</i> 153	L 26	# 172
Remein, Duane		chnologies, Inc.	h sector (Remein, Duane	Futurewei Te	echnologies, Inc.	
Comment Type E	Comment Status A stances of the PLS service intervice	orfaco (ono nor N	bucket	Comment Type T	Comment Status A	0	
instances" should be		enace (one per iv		We seem to have ad	cquired an extra TCX in figure 1	43-9.	
SuggestedRemedy				SuggestedRemedy			
per comment				Change: "TXC[N}<3	:0>" to "TXC[N-1}<3:0>"		
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT IN PRINC	IPLE.		
C/ 143 SC 143.3.1	P 153	L14	# 262	Change: "TXC[N]<3	:0>" to "TXC[N-1]<3:0>"		
D'Ambrosia, John	Futurewei, U	S. Subsidiary of	Huawei	C/ 143 SC 143.3.	1.1 <i>P</i> 153	L 41	# 51
Comment Type ER	Comment Status A			Hajduczenia, Marek	Charter Com	munications	
Vertical text in left / r	ight of diagram of Fig 143-9 is	illegible		Comment Type E	Comment Status A		bucket
SuggestedRemedy				Compound adjective	9		
Use different font to	fascilate being able to read text	t		SuggestedRemedy			
Response	Response Status C			Change "In all single	e channel RS definitions" to "In	all single-channel	RS definitions"
				Desmana			
ACCEPT.				Response	Response Status C		

C/ 143 SC 143.3.1.1 Page 63 of 103 8/4/2019 8:18:19 AM

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C/ 143 SC 143.3.	1.1 <i>P</i> 154	L18	# 52	C/ 143 SC 143.3	.1.2.2	P155	L 26	# 174
Hajduczenia, Marek	Charter Comm	nunications		Remein, Duane		Futurewei Te	chnologies, Inc.	
Comment Type T	Comment Status A			Comment Type E	Comme	ent Status A		bucket
Statement is not co also shows XGMII	rrect: "All transmit 25GMII interfa	ces share a com	mon clock." - tabel	"ch" and "link_id", SuggestedRemedy	"env_length", "	EnvPam", "epam"	should be in italics	S.
SuggestedRemedy				per comment				
0	t 25GMII interfaces share a com ommon clock." under Table 143-		II transmit xGMII	Response	Respons	se Status C		
Response	Response Status C			ACCEPT.				
ACCEPT IN PRINC	IPLE.			C/ 143 SC 143.3	.1.2.2	P155	L 29	# 35
Remove footnote a)	reference points in rows for 10 (Bb/s and 25 Gb/s	in Table 143-1.	Hajduczenia, Marek		Charter Com	munications	-
C/ 143 SC 143.3.	1.2.1 <i>P</i> 155	L18	# 173	Comment Type ER "can" used and not		ent Status A Style Guide		can-vs-may
Remein, Duane	Futurewei Teo	hnologies, Inc.		SuggestedRemedy				
EQs) of env_length. the value of epam (s "ch", "link_id", "env	nvelope on channel ch for the LL If all channels are idle, the EnvF see EnvStartHeader() function de /_length", "EnvPam", "epam" sho	Pam variable (see	e 143.3.3.4) is set to	Change "The MPC MPCP may decide <i>Response</i> ACCEPT.	whether to iss			ediately" to "The
SuggestedRemedy				C/ 143 SC 143.3	.2	P156	L 3	# 175
per comment	_			Remein, Duane		Futurewei Te	chnologies, Inc.	
Response	Response Status C			Comment Type E	Comme	ent Status A	0	bucket
ACCEPT. <i>C</i> / 143 SC 143.3.	1.2.2 <i>P</i> 155	L 25	# 304	If we are treating find section should be it		ariables (as in Cl	144.3.6.x) then all f	ield names in this
Kramer, Glen	Broadcom	223	# <u>504</u>	SuggestedRemedy				
Comment Type T	Comment Status A			per comment				
The MCRS_CTRL[c	comment status A ch].indication(cw_left) primitive do ed everywhere in text, but still ren			Response ACCEPT.	Respons	se Status C		
SuggestedRemedy strike "cw_left"								
Response ACCEPT.	Response Status C							

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

C/ 143 SC 143.3.2

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

/ 143 SC	C 143.3.2	P 157	L 5	# 105	C/ 143	SC	143.3.2	P157	L 25	# 272
nslow, Pete		Ciena			Kramer,	Glen		Broadcom		
omment Type	Е	Comment Status A		bucket	Commer	nt Type	т	Comment Status A		
because the	ey can be mi	states that for a number rang sconstrued as subtraction sig t violate this rule.		uld never be used		has no l	knowledge	at bits E and K are "used by 19 e of 802.3ca.	904.1". 1904.1	was approved in 2013
Make equiv including: Table 144-2 12.	-3, change a alent change 2, Table 144-	all instances of "x-y" to "x to y e throughout the draft where a 3, Table 144-4, Table 144-7,	a hyphen is use	•	Ther 1) Ta addii for v the t	re are (at able 143 tion to ev arious fie able.	least) th -3 provide verything t elds and h	ree possible solutions: s no new information compare hat the table shows, the figure ow the header is split across to	provides such wo 25GMII trar	details as the bit ordensfers. So, just delete
•	age 139, line	,			2) (nange bi	is E and r	K to "reserved" and delete all re	elerences to IE	EE 1904.1
esponse ACCEPT.		Response Status C			this	time), the	en the foo	esire to lock the bits E and K to tnote should say "Reserved for . If we decide to go this route, i	r IEEE Std 190	4.1". Only one footnot
/ 143 SC	C 143.3.2	P157	L 5	# 263				tion of these bits instead of jus		
ramer, Glen		Broadcom			The	commer	ter prefer	s solution #1.		
omment Type	TR	Comment Status A		bit-order	Respons			Response Status C		
conventions in the EQ re	s, all hexaded epresenting a aracter, the	sues with incorrect endianne cimal values are shown with an envelope header should b rest are data). But the draft s	LSB on the righ e 0x01 (i.e., the	t. Thus, the control bits first octet in an EQ is	ACC Impl	EPT IN		•	on of K bit to ro	ad: "Encryption Koy
		I_EQ, IBI_EQ, RATE_ADJ_ end of the block.	EQ, and PREA	MBLE_EQ all show the	(rese	erved, no	ot for use I	by IEEE Std 802.3)" e legend, change the description		
uggestedRem	edv				Enal	oled (res	erved, not	for use by IEEE Std 802.3)"		
00		to the draft as shown in kram <i>Response Status</i> C	ner_3ca_2_0719	9.pdf				envelope header shall use the f remove associated PICS.	ormat shown ii	n Table 143–3." +
ACCEPT IN		Ξ.			Cha	nge first	para unde	er 143.3.2 to read as follows +	update PICS	
Per propose	ed changes,	less changes to Table 143-3	deleted per cor	nment #272	heac Code Mark	ler shall e, an En ker (EPA	be as sho vType flag M) field, tv	ed by the MCRS begins with a first of the second se	elope header ir field, an Envel	ncludes a Start Contro ope Position Alignmer
						e the foll ing para		sentences into the next para u	under Figure 14	43-10, right before the

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

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 143	Page 65 of 103
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143-10, includes two successive transfers over the xMII. Each 36-bit transfer includes four C/ 143 SC 143.3.3.3 P161 L 37 # 337 control bits followed by 32 information bits." Broadcom Laubach, Mark # 53 C/ 143 SC 143.3.2.1 P157 L43 Comment Type Ε Comment Status A bucket Haiduczenia. Marek Charter Communications It would be a good idea to avoid hypenating contant names and any simple math equation Comment Type E Comment Status A bucket where it might having confusing interpretation between minus sign and a hypen. Same for line 43. The statement "The following test sequences show" is not clear, since associated tables are on the next page. SuggestedRemedy SuggestedRemedy Remove the line breaking Change "The following test sequences show" to "The test sequences in Table 143-4, Table Response Response Status C 143-5. and Table 143-6 show" ACCEPT. Response Response Status C C/ 143 SC 143.3.3.3 P161 L44 ACCEPT. # 338 Laubach, Mark Broadcom SC 143.3.3 # 273 C/ 143 P158 L1 Comment Type Ε Comment Status A bucket Cadence Design Systems Marris. Arthur End of sentence for Description needs a period. Comment Type Е Comment Status R SuggestedRemedy Why is some text shaded in Table 143-4? Add the period to the end of sentence. SuggestedRemedy Response Response Status C Remove shading of CRC8 and other shading if appropriate. ACCEPT. Response Response Status C C/ 143 SC 143.3.3.4 P161 # 177 REJECT. L11 Remein, Duane Futurewei Technologies, Inc. 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 Comment Type Ε Comment Status A bucket value of CRC8 field. "is also as the row index" should be "is also used as the row index" SC 143.3.3.2 L42 SuggestedRemedy C/ 143 P159 # 176 per comment Remein, Duane Futurewei Technologies, Inc. Response Response Status C Comment Type E Comment Status A bucket ACCEPT. "are be added" should be "are to be added" SuggestedRemedy per comment 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/ 143 SC 143.3.3.4 Page 66 of 103 8/4/2019 8:18:19 AM

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C/ 143 SC 143	.3.3.5	D162 L2	20 # 3	67	C/ 143	SC 143.3.3.	5 P	163	L 32	# 366
Hajduczenia, Marek	Ch	arter Communication	ons		Hajduczer	nia, Marek	Cha	arter Communi	cations	
Comment Type El	R Comment Stat	us A		bit-order	Comment	Type E	Comment Statu	s A		bucket
•	vContHeader and EnvS				"," ver	sus ";"				
	how ranges starting from the ranges are reversed		ending with lower v	alue. Here,	Suggested	dRemedy				
SuggestedRemedy	the ranges are reversed	4					ex = 0; octet_index			
	der, for example hdr<0	7> should become	hdr<7:0>		_		;<<<< octet_index-	,	narked in >>	>>><<<<
Response	Response Statu	is C			Response		Response Status	s C		
ACCEPT IN PRIN	,				ACCE	ΡΙ.				
0					C/ 143	SC 143.3.3.	5 P	163	L 32	# 178
See comment #2	53				Remein, D	Duane	Fut	urewei Techno	logies, Inc.	
C/ 143 SC 143	.3.3.5	D163 L2	28 # 3	60	Comment	Type TR	Comment Statu	s A		GetMacOctet
Hajduczenia, Marek	Ch	arter Communication	ons		GetMa	acOctet and Islo	lle are not defined			
Comment Type T	Comment Stat	us A			Suggested	dRemedy				
Format definition	of EQ structure is missi	ng. It is defined three	ough a comment on	lly		alpha order:	- for all and had not a	and a factor to the second	dete for an d	
SuggestedRemedy							a function that retur >link_id.	ins eight bits of	data from tr	ne MAC associated
	will be needed, perhap	os using C++ style f	for classes, showing	g fields						
defined and how t	hey are defined?				IsIdle(idle.	byte) a Boolea	an function that retur	rns True of all b	oits in the <it< td=""><td>alic>byte are</td></it<>	alic>byte are
struct EQ {					Response		Doononoo Statu	• •		
bool Control[8]; int8u Data [8];					•	PT IN PRINCIP	Response Status	5 6		
}					ACCL		LL.			
Response	Response Stati	ıs C			See co	omment #311				
ACCEPT IN PRIN	ICIPLE.				C/ 143	SC 143.3.3.	5 P	163	L 33	# 359
Change					Hajduczer	nia, Marek	Cha	arter Communi	cations	
•	its of control (Ctrl[07])			Comment	Туре Т	Comment Statu			GetMacOctet
// and 8 octets of	data (Data[07])"				Functi	on GetMacOcte	t() used but not form	ally specified a	anywhere.	
to					Suggested	Remedy				
					Insert	a formal definiti	on of GetMacOctet()	function as fo	llows:	
	its of control (Ctrl[0…7] data (Data[0…7]), as sh	/	_2"		intQu. (< ;4)			
	data (Data[0/]), as si	iowinin'i iguie 140-	2			GetMacOctet(inl etMacOctet() fu	nction retrieves one	octet (8 bits) o	f data from a	a MAC identified by
						v	and returns it to the	· · ·		,
					Response		Response Status	s C		
					ACCE	PT IN PRINCIP	LE.			
					See co	omment #311				
	outrod ED/aditation	wind OD/manage	required Theshalts		ronoral			01 440		Daga 07 -4400
	equired ER/editorial rec							C/ 143 SC 143 3 3		Page 67 of 103 8/4/2019 8:18:19 /

TTTE. Tratecimical required Enveational required Oragene	a required Theorinical Erectional Orgeneral	0/ 143	1 age 07 01 100
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 143.3.3.5	8/4/2019 8:18:19 AM
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	P 163	L 33	# 311	C/ 143 SC 1	43.3.3.6.2	P 165	L 1	# 365
ynskey, Eric	Broadcom			Hajduczenia, Mare	ĸ	Charter Com	munications	
Comment Type T	Comment Status A		GetMacOctet	Comment Type	TR Com	ment Status D		
GetMacOctet function is no	ot defined.					ing written into EnvT		
SuggestedRemedy						ure 143-13 starts rea		to 1 before any data Row equal to 0. This
Returns an 8-bit vector bas one of four values: ONE, 2 primitive is not able to retu	ZERO, DĂTA_COMPLETE	E, or IDLE. If the	PLS_DATA.request	means that at t defined in any		ate diagram, state a	nd content of Env	Tx[ch][0] is not
IDLE will be returned instead		OF DATA_COM		SuggestedRemedy				
Response F	Response Status C					condition in Figure 1		
ACCEPT IN PRINCIPLE.				we can avoid th			. Index wrap-arou	nd will do the rest an
Undete definitions of Oct				Proposed Respons		onse Status Z		
Update definitions of GetM http://www.ieee802.org/3/c			3ca 10a 0719.pdf	REJECT.	,			
C/ 143 SC 143.3.3.5	P163		# 312	This commont		(N) by the comment		
_ynskey, Eric	F 183 Broadcom	L 34	# 312	This comment	was withdraw	VN by the commente	<i>э</i> г.	
	Comment Status A		GetMacOctet	C/ 143 SC 1	43.3.3.6.2	P 165	L3	# 489
IsIdle function is not define			Gennacociei	Law, David	+3.3.3.0.2			# 489
	u.			,			ard Enterprise	
SuggestedRemedy		- ()	a statika sa sa kasa d			ment Status A		redi
A boolean function that ret IDLE. Otherwise, it returns		of the presented	octet have a value of			d Formatting Require ust be provided to th		
Response F	Response Status C			minimum this s	hall be complete	ed prior to the Spons	or ballot however	it is preferable that
ACCEPT IN PRINCIPLE.						ormat for its entire lif not in Frame and ar		
				example 143-1			e motoda importe	
Soo commont #211				SuggestedRemedy				
See comment #311							riar to Changer h	
	P 165	L 1	# 361	Ensure that Fig	ures are conver	ted to Framemaker p	phor to sponsor b	allot, the earlier the
C/ 143 SC 143.3.3.6.2	P165 Charter Comm		# 361	better to ensure	e that any errors	created during the c	onversion are cau	allot, the earlier the ught as soon as
C/ 143 SC 143.3.3.6.2 Hajduczenia, Marek			# 361	better to ensure possible. If you	e that any errors need help in do	created during the c ing this please let m	onversion are cau	allot, the earlier the ught as soon as
C/ 143 SC 143.3.3.6.2 Hajduczenia, Marek	Charter Comn Comment Status A	nunications		better to ensure possible. If you Response	e that any errors need help in do <i>Resp</i> e	created during the c	onversion are cau	allot, the earlier the Jght as soon as
Cl 143 SC 143.3.3.6.2 Hajduczenia, Marek Comment Type T Variable EnvPam used but	Charter Comn Comment Status A	nunications		better to ensure possible. If you	e that any errors need help in do <i>Resp</i> e	created during the c ing this please let m	onversion are cau	allot, the earlier the ught as soon as
Cl 143 SC 143.3.3.6.2 Hajduczenia, Marek Comment Type T Variable EnvPam used but	Charter Comm Comment Status A t not initialized in the state	diagram or desc		better to ensure possible. If you Response	e that any errors need help in do <i>Resp</i> e RINCIPLE.	created during the c ing this please let me	onversion are cau	allot, the earlier the Jght as soon as
Cl 143 SC 143.3.3.6.2 Hajduczenia, Marek Comment Type T variable EnvPam used but SuggestedRemedy Add initialization value to s	Charter Comm Comment Status A t not initialized in the state	diagram or desc		better to ensure possible. If you <i>Response</i> ACCEPT IN PF	e that any errors need help in do <i>Resp</i> e RINCIPLE.	created during the c ing this please let me	onversion are cau	allot, the earlier the ught as soon as
Cl 143 SC 143.3.3.6.2 Hajduczenia, Marek Comment Type T variable EnvPam used but SuggestedRemedy Add initialization value to s	Charter Comn Comment Status A t not initialized in the state state INIT in Figure 132-12	diagram or desc		better to ensure possible. If you <i>Response</i> ACCEPT IN PF	e that any errors need help in do <i>Resp</i> e RINCIPLE.	created during the c ing this please let me	onversion are cau	allot, the earlier the ught as soon as
Cl 143 SC 143.3.3.6.2 Hajduczenia, Marek Comment Type T v Variable EnvPam used but SuggestedRemedy Add initialization value to s Response F	Charter Comm Comment Status A t not initialized in the state state INIT in Figure 132-12 Response Status C	diagram or desc		better to ensure possible. If you <i>Response</i> ACCEPT IN PF	e that any errors need help in do <i>Resp</i> e RINCIPLE.	created during the c ing this please let me	onversion are cau	allot, the earlier the ught as soon as

C/ 143 SC 143.3.3.6.2

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C/ 143 SC 143.3.3.6.2	P165 L	15 # 364	C/ 143 SC 143.3.3	.6.2 P165	L 36	# 339
Hajduczenia, Marek	Charter Communicat	ions	Laubach, Mark	Broadcom		
Comment Type T Co	omment Status D		Comment Type TR	Comment Status A		
	E state is rather ill-fitting - there it prepare filler pattern in case t			F, it looks like a hypen at the e he end of "EnvLeft[wCol] " o		Col]-" rather than a
SuggestedRemedy			SuggestedRemedy			
Change name of CHECK_EI pattern)	NV_SIZE state to PREP_FILLE	R (for preparing filler EQ	Confirm it should be <i>Response</i>	a minus 1 '" and make it visib <i>Response Status</i> C	bly clear.	
Proposed Response Re	sponse Status Z		ACCEPT.	Response Status		
REJECT.			ACCEPT.			
			C/ 143 SC 143.3.3	.6.2 <i>P</i> 166	L 9	# 264
This comment was WITHDR	AWN by the commenter.		Kramer, Glen	Broadcom		
C/ 143 SC 143.3.3.6.2	P165 L	15 # 363	Comment Type TR	Comment Status A		
Hajduczenia, Marek	Charter Communicat	ions		ess (Fig 143-13) and MCRS R		
Comment Type T Co	omment Status A		proper bit locations, a	according to EQ format definition	on in Figure 143-	2.
Name of CHECK_HEADER it is empty in fact	state is rather ill-fitting - there is	s no header check in this state,	SuggestedRemedy Change both state di	agrams as shown in kramer_30	ca_1_0719.pdf	
SuggestedRemedy			Response	Response Status C		
Change name of CHECK_HI does send request in time)	EADER state to FETCH_ENV (for fetching envelope if MCRS	ACCEPT.			
Response Re	sponse Status C		C/ 143 SC 143.3.4	.3 <i>P</i> 168	L 43	# 179
ACCEPT IN PRINCIPLE.			Remein, Duane	Futurewei Tee	chnologies, Inc.	
Change "CHECK_HEADER"	to "CHECK_NEW_ENV"		Comment Type E "RX -	Comment Status A	-	bucke
C/ 143 SC 143.3.3.6.2	P 165 L	15 # 362	CLK[ch]" should not	cross the line.		
Hajduczenia, Marek	Charter Communicat	ions	SuggestedRemedy			
Comment Type E Co	omment Status A	bucket	per comment			
	ising "*" symbol designating "A use the new set of definitions. T		Response ACCEPT.	Response Status C		
SuggestedRemedy						
Change all instances of "*" to	"AND" in Figure 142 12					

Change all instances of "*" to "AND" in Figure 143-12

Response Response Status C

ACCEPT.

C/ 143 SC 143.3.4.3

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C/ 143 SC	143.3.4.4	P 169	L15	# 265	C/ 143	SC 143.3.4.5	.1 <i>P</i> 171	L 21	# 181
Kramer, Glen		Broadcom			Remein, Du	ane	Futurewe	ei Technologies, Inc.	
Comment Type	TR	Comment Status A			Comment Ty	pe TR	Comment Status A		
EQ. But whe	en the head	der is formed, the CRC8 is ca er is received, the IsHeader() e CRC8 values will never mat	function calcula		PARSE_	HEADER state	ned in 143.3.4.3 is a six l e it is been assigned a 5		
SuggestedReme	•				SuggestedR				
00	IsHeader(== CRC8(e	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Response ACCEP	RxEQ<4:0> to	Response Status C		
Response ACCEPT.		Response Status C			See con	iment #264			
C/ 143 SC	143.3.4.4	P 169	L 28	# 266					
Kramer, Glen		Broadcom							
Comment Type Incorrect for	E mat for a he	Comment Status A exadecimal numeric value		bucket					
SuggestedReme replace 0x0A		ith 0x0A-0A-0A-0A							
Response ACCEPT.		Response Status C							
C/ 143 SC	143.3.4.4	P 169	L 36	# 180					
Remein, Duane		Futurewei Tecl	hnologies, Inc.						
Comment Type	Е	Comment Status A	C	bucket					
Make code f	for OutputTo	bMac(int16 link_id, EQ eq) mo me line as instruction, combi							
SuggestedReme per commen									
Response	n	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

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C/ 143 SC 143.3.4.5.2	P 172	L 21	# 182	C/ 143	SC 143.4.1	P1	74	L 8	# 183		
Remein, Duane	Futurewei Tee	Remein, Duane Futurewei Technologies, Inc.									
Comment Type TR	Comment Status A	Comment	Туре Т	Comment Status	Α						
Need to latch localtime or	ESH.					eed to use xMII where a very obtuse manor.		iate. Also the 25	GMII supports 10		
SuggestedRemedy		SIZE add tha fall	owing	Suggestea	Remedy	-					
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}					Change "The MCRS in Nx25G-EPON architecture serves as an interfaces sublayer between the MAC sublayer and 25GMII. The 25GMII interfaces have the following characteristics:" to "The MCRS in Nx25G-EPON architecture serves as an interface sublayer between the MAC and xMII. The xMII interfaces have the following characteristics:"						
	2nd new state: "CAPTURE_TIMESTAMP"					Response Status		0			
Action: TS(Plid) <= Loca Exit to UPDATE_ENV_SI		Response ACCE	PT IN PRINCIPL	,	•						
Define new variables: TS_LLID Type: list of PLIDs Description: A list of all active PLIDs.					Comment type changed to "T" On page 174, line 11, change "They are capable of supporting 25 Gb/s or 10 Gb/s operation" to "The 25GMII is rate-scalable and may support rates of 25 Gb/s and 10 Gb/s"						
											LocalTime
Type: 32-bit unsigned						Futur	ewei Tecł	hnologies, Inc.			
See 144.2.1.2				Comment	Туре Е	Comment Status	Α		bucket		
Response ACCEPT IN PRINCIPLE.	Response Status C		There is no need for an abbreviation which is never used (to say nothing of confusing if used)								
MCRS cannot check for M LocalTime in MCRS. Loca		n of frames. No th	ere is a concept of	Suggestea Strike	<i>Remedy</i> '(DC)" and "(UC)	,"					
with the following changes				Response ACCE	PT.	Response Status	С				
- MCRS_ECH needs to be	changed to MCRS_ESH			C/ 143	SC 143.4.1.1	P1	74	L 30	# 404		
				Dawe, Pie	S	Mella	nox				
Updates to definition of Pr	ocessTimestamp are also	needed. Here is	the raw text	Comment Nx25G	Type E	Comment Status	A		bucket		
ProcessTimestamp (Plid, This function takes the PL difference between the loc	ID and a parameter <i>Ts</i>	Suggestea Nx25G	<i>Remedy</i> -EPON								
function checks whether t threshold <i>DRIFT_THO variable based on the valu OLT, this function measur received on a given PLID</i>	function checks whether the timestamp drift has exceeded the predefined device-spec threshold <i>DRIFT_THOLD</i> . In the ONU, this function sets the <i>LocalTime</i> variable based on the value of the received <i>Timestamp</i> field (see 144.3.1.1). In OLT, this function measures the RTT value when the first timestamped MPCPDU is received on a given PLID link. Note that in the ONU, the RTT value is always zero. The ProcessTimestamp function is defined as follows:			Response ACCE	РТ.	Response Status	С				
YPE: TR/technical required OMMENT STATUS: D/dispa ORT ORDER: Clause, Subc	tched A/accepted R/reject				U/unsatisfied 2	Z/withdrawn	C/ 143 SC 143		Page 71 of 103 8/4/2019 8:18:19		

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						-	-		
C/ 143 SC	C 143.4.1.1	P174	L 42	# 389	C/ 143	SC 143.4.1.2	P175	L 5	# 313
awe, Piers		Mellanox			Lynskey, Eric	;	Broadcom		
Comment Type Unnecessa	e E ary line break	Comment Status A			Comment Typ Subclaus	be E e 143.4.4 does	Comment Status A		143.4.
uggestedRem Also at line	,				SuggestedRe Remove	emedy the sentence.			
esponse ACCEPT IN	N PRINCIPLE	Response Status C			Response ACCEPT		Response Status C		
Change wic	dth of the tabl	e to match current line width			See com	ment #185			
2/ 143 So	C 143.4.1.2	P 175	L 4	# 185	C/ 143	SC 143.4.1.2	P 175	L 5	# 388
emein, Duane	e	Futurewei Tec	hnologies, Inc.		Dawe, Piers Mellanox				
omment Type	, T	Comment Status A		143.4.4	Comment Ty	pe E	Comment Status A		143.4.
		suitable reference to suppor		"Additional details for	Apparent	cross-reference	e in red "143.4.4" doesn't wo	ork.	
	lementations ed in 143.4.4.'	supporting the channel rate	asymmetry		SuggestedRe	emedy			
uggestedRem	nedy				_				
Strike the s	statement				Response		Response Status C		
esponse		Response Status C			ACCEPT	IN PRINCIPLE			
ACCEPT IN		E			See com	ment #185			
Comment t	ype changed	to "T"			C/ 143	SC 143.4.1.2	P 175	L 5	# 340
This points	to missing de	etails in MCRS specification.	Nowhere do we	e define how to achieve	Laubach, Ma	rk	Broadcom		
		ep the reference for now and			<i>Comment Ty</i> "143.4.4"		Comment Status A oper crossref and not just RI	ED in colorf.	bucke
/ 143 SC	C 143.4.1.2	P175	L 5	# 54	SuggestedRe	emedy			
Hajduczenia, Marek Charter Communications			Make it a proper cross ref.						
omment Type		Comment Status A		143.4.4	Response		Response Status C		
Reference i					ACCEPT		,		
uggestedRem	nedy								
	ement "Addition are provided	onal details for MCRS implen in 143.4.4"	nentations supp	orting the channel rate					
esponse		Response Status C							
ACCEPT IN		E.							
See comme	ent #185								
	a ta a ta a su ta a d			T // I C I / I /					D

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/ 143	SC 143.4.1.2	P175	L10	# 36	C/ 143	SC	143.4.2	P176	L 28	# 187
Hajduczenia,	Marek	Charter Comm	nunications		Remein, D	Duane		Futurewe	i Technologies, Inc.	
Comment Typ "can" use		Comment Status A nded per Style Guide		can-vs-may	Comment What i		TR C PLID?	Comment Status A		
SuggestedRe Change "	emedy 'the channel nu	Imber asymmetry mechanism chanisms may be combined"	ns can be comb	ined" to "the channel	Suggested	<i>Remed</i> ge to DI	_	Response Status C		
Response ACCEPT		Response Status C			ACCE					
C/ 143	SC 143.4.1.3.	2 <i>P</i> 175	L 39	# 37	C/ 143		143.4.3	P 176	L 45	# 188
Hajduczenia,		Charter Comm			Remein, D	Duane		Futurewe	i Technologies, Inc.	
Comment Ty	pe ER	Comment Status A nded per Style Guide	lunications	can-vs-may	Comment I belie Suggested	ve MPC		Comment Status A ady been introduced in	this clause	bucket
SuggestedRe Change " rows" Response ACCEPT	buffer can be i	reduced to only two rows" to " Response Status C	buffer may be r	educed to only two	Chang "Multi- "MPCI <i>Response</i> ACCE	, Point C P"	control Prote	ocol (MPCP)" to Response Status C		
C/ 143	SC 143.4.2	P 176	L 2	# 186	C/ 143	SC	143.5.4.2	P179	L 6	# 106
Remein, Dua	ine	Futurewei Tec	hnologies, Inc.		Anslow, P	ete		Ciena		
Comment Typ Missing " SuggestedRe	The"	Comment Status A		bucket		les for		Comment Status A ne "Status" column of P include "+" as an "or" f		d in 21.6.2 of the base
Add befo and at lin	re: "ONU MCR le 14 before "P	S always sets the write point CS receiver synchronizes on		elimiter"	Suggested Chang			r previous amendments	5	
		MII and is received into … " LT MCRS EnvRx buffer."			Response			Response Status C		
Response ACCEPT		Response Status C			ACCE	PT.				

C/ 143 SC 143.5.4.2 Page 73 of 103 8/4/2019 8:18:19 AM

are numerous other enhancements.

of the existing CSMA/CD MAC in Clause 4.

MP9b should ref 144.3.7.7 not 144.3.8.7.

SC 144

C/ 144

Remein, Duane Comment Type **TR**

SuggestedRemedy per comment

ACCEPT.

Response

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

C/ 144	SC 144	P180	L1	# 464	C/ 144	SC 144.1	P	80	L12	# 189
Thompso	on, Geoff	GraCaSI S.A.	/Independent		Remein, I	Duane	Futu	rewei Te	chnologies, Inc.	
Comment	t Type TR	Comment Status R			Comment	Type TR	Comment Status	A		
This i proto	is a Physical Lay cols". That mear	cope. It is shown in Fig. 144-2 er project which said it would " ns to me the augmentation of ew specification misplaced in	extend the ope	ration of EPON d in clause 64, not the	Suggestee Chang	d <i>Remedy</i> ge:	pancy levels not con	gestion.		
Suggeste	dRemedy				•	ting of congestion ting queue occu				
Rewr lause		what was promised in the PAF	R. Presumably	that will include deleting	Response		Response Status	С		
Response	е	Response Status U			ACCE	PT.				
REJE	ECT.				Comn	nent type chang	ed to "T"			
Optic Opera Point to pro	al Networks (EPC ation Administrati Control Protocol ovide time-based	s that this project " also exter DN) protocols, such as MultiPo ion and Management (OAM)." (MPCP), the new generation transmission arbitration for mi- e existing MPCP specification	pint Control Pro Just like previo uses GATE and ultiple connecte	tocol (MPCP) and us generations of Multi- I REPORT MPCPDUs d ONUs. However, the						

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

specifying finer granularity for transition units (2.56 ns EQs instead of 16 ns TQs). There

The TF strongly disagrees that the statement "extends the operation of Ethernet Passive Optical Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP)" implies that all the changes need to be confined to one of the existing MPCP clauses (see Clause 64 or Clause 77), and not be defined as a new clause. The TF made a decision to create a new clause instead of modifying an existing clause for clarity of presentation and for the convenience of users of the standard. This is not unlike an earlier WG decision to specify the simplified full-duplex MAC as a separate Annex 4A instead of modifying the operation

P244

Comment Status A

Response Status C

L6

Futurewei Technologies, Inc.

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

144 SC 144.1 P180 L20 #	190	C/ 144	SC 144.1	P 180	L 21	# 341
mein, Duane Futurewei Technologies, Inc.		Laubach, I	Mark	Broadcom		
mment Type E Comment Status A	bucket	Comment	Туре Е	Comment Status A		bucke
Missing "the", "a", or "an"		Bullets	s have inconsiste	ent endings, one ends in a pe	riod, the other do	besn't.
ggestedRemedy		Suggestea	Remedy			
At the following locations (pg/line) change "" to read "":		Editor	to choose how t	o have consistent (or appropr	iate) line endings	S
180/20 "TDM-based access to P2MP medium" -> "TDM-based access to _the medium"	e_ P2MP	Response		Response Status C		
181/27 "binding each instance of MAC" -> "binding each instance of _a_ MA	C"	ACCE	PT IN PRINCIPI	•		
183/3 "upstream transmissions in EPON" -> "upstream transmissions in _an	_ EPON"	-				
186/5 "envelope transmission over multi-channel P2MP media" -> "envelope over _a_ multi-channel P2MP media"	transmission	Remov	ve "." at the end	of the second bullet.		
187/1 "For accuracy of receive clock" -> "For accuracy of _the_ receive clock		C/ 144	SC 144.1.1.1	P 180	L 45	# 191
187/11 "MPCPDU is received from MAC" -> "MPCPDU is received from _the_ 189/35 "To achieve this goal, MPCP includes processes that measure range"		Remein, D	Duane	Futurewei Te	chnologies, Inc.	
achieve this goal, _the_ MPCP includes processes that measure _the_ range	-> 10 e" (2x)	Comment	Туре Т	Comment Status A		
190/11 "transmits DISCOVERY MPCPDU with timestamp value" -> "transmit	sa	Hopefu	ully we allocate r	more than one grant to each (DNU	
DISCOVERY MPCPDU with a timestamp value" (2x) 193/12 "of GATE Generation Process and a separate instance of Registration		Suggestea	Remedy			
Process" -> "of _the_ GATE Generation Process and a separate instance of		Chang	,			
Registration Completion Process"				ion window (grant)" to		
195/26 "may only contain PLID, MLID, or ULID, but never GLID" -> "may only PLID, MLID, or ULID, but never _a_ GLID"	contain _a_	_	0	n windows (grants)"		
208/49 "registered ONUs using unicast" -> "registered ONUs using a unicast"	1	Response		Response Status C		
214/43 "transmitting at line rate" -> "transmitting at a line rate" 214/48 "transmitting at line rate" -> "transmitting at a line rate"		ACCE	PT IN PRINCIPI	-E.		
222/5 "timer counts down time" -> "timer counts down the time"				on is achieved by allocating a		
227/18 "ONU is capable of receiving DISCOVERY MPCPDU" -> "ONU is cap	able of	ONU." ONUs.		ion is achieved by allocating t	ransmission wind	dows (grants) to
receiving a DISCOVERY MPCPDU" 227/19 "transmitted by the OLT on DISC_PLID" -> "transmitted by the OLT on	n the					
DISC_PLID"		C/ 144	SC 144.1.1.2	P 181	L 24	# 192
227/27 "ONU skips such discovery attempt" -> "ONU skips such discovery at (add an "s" to attempt)	tempts"	Remein, D	Duane	Futurewei Te	chnologies, Inc.	
		Comment	51	Comment Status A		
ACCEPT.		This is	the only instand	ce of "MAC element"		
		Suggestea	Remedy			
		Chang	e to "MAC insta	nces"		
		Response		Response Status C		
		ACCE	DT			

C/ 144 SC 144.1.1.2

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

		# 193	C/ 144	00	144.1.1.3		P 183	L 4	# 38	
mein, Duane F	uturewei Technologies, Inc.		Hajduczen	nia, Mai	rek	С	harter Com	munications		
mment Type TR Comment Sta	atus A		Comment	Туре	ER	Comment Sta	tus R		can	-vs-may
This para implies free use of pre-define which is incorrect.	d single-copy broadcast for a n	umber of purposes				nded per Style G	uide			
ggestedRemedy			Suggestea		-					
Change:						ed ONU can be scheduled for t		or the upstream tra	ansmission" to	newly
"Several single-copy broadcast logical l	inks are pre-set. Such links mag	y be used to	Response		,	Response Sta				
broadcast MPCPDUs, CCPDUs, or OAMPDUs." to:			REJE							
"Several single-copy broadcast logical I	inks are pre-defined for specific	purposes (see								
Table 144-1)." sponse Response Sta	stus C					s capable") is co ally wrong here	prrect and is	intended. "May" (i	.e., "is allowed'	' or "is
ACCEPT.			C/ 144	SC	144.1.1.3		P183	L 8	# 195	
144 SC 144.1.1.2	P181 L 49	# 194	Remein, D	Duane		F	uturewei Te	chnologies, Inc.		
		# 194	Comment	Туре	Е	Comment Sta	tus A			bucke
	uturewei Technologies, Inc.					hould be singula	ır			
mment Type TR Comment Sta		we not optim by the	"detail:	s" at lir	ne 13 too.					
This statement is extraneous and misle Discovery Process and those that are r			Suggestea	Remed	dy					
ggestedRemedy			per co	mment	t					
Strike "Some LLID values are pre-set, v Discovery Process (144.3.5)."	2	, , ,	Response ACCE			Response Sta	tus C			
If the TF believe it is necessary to ment change "By default, the OLT is connect	ion the Discovery Process in th	is section then	C/ 144	SC	144.1.3		P183	L 26	# 2	
(144.3.5), the OLT is connected"		scovery Flocess	Hajduczen			0		munications	<i>m</i> 2	
sponse Response Sta	tus C					Comment Sta		munications		hualia
ACCEPT IN PRINCIPLE.	•		Comment Empty		E	Comment Sta	ius A			bucke
					in 144.1.4					
Strike the sentence "Some LLID values assigned by the Discovery Process (14-		are dynamically	Suggestea	Reme	dv					
assigned by the Discovery Flocess (14	4.3.3).				empty lines	5				
Add a new sentence, following the sent			Response			Response Sta	tus C			
each ONU are established during the D	iscovery Process (see 144.3.5)		ACCE			,				
			,.00L							

C/ 144 SC 144.1.3

Approved Respor	ISES	IEEE P802.30	a D2.0 25/50G	-EPON Task	Force Initial	Work	ting Grou	ip ballot co	omments			
C/ 144 SC 144.1	. 4.2 <i>P</i> 1	84 <i>L</i> 1	0 # 3	314	C/ 144	SC	144.1.4.4		P186	L 3	# 197	
Lynskey, Eric	Broa	dcom			Remein, I	Duane			Futurewei Te	chnologies, Inc.		
Comment Type E Multiplexor	Comment Status	Α		bucket	Comment MCRS		E ly introduce	<i>Comment</i> ed on pg 181		-		bucket
SuggestedRemedy					Suggested	dReme	dy					
	more frequently. Sugge and 45. Page 186 line 3			e changed.		Chann		,	er (MCRS, see	Clause 143)" to		
Response	Response Status	С				``	Clause 143	,				
ACCEPT.					Response			Response	Status C			
C/ 144 SC 144.1				96		PT IN I	PRINCIPLE	Ξ.				
Remein, Duane		rewei Technologi	es, Inc.									
Comment Type ER "MCI:MA CONTROL.indication SuggestedRemedy	Comment Status	A			Cl 144 Hajduczer Comment	nia, Ma <i>Type</i>	144.1.4.4 rek E be defined	Comment	P 186 Charter Com Status A	L 4 munications	# 4	bucket
make non-breaking	I					•		Delote				
Response	Response Status	с			Suggested Chang		-	RS, see Claus	se 143)." to "su	blayer (see Clause	143)."	
ACCEPT.					Response			Response	Status C			
C/ 144 SC 144.1	.4.2 P1	84 L4	15 # [3	3	ACCE	PT.						
Hajduczenia, Marek	Char	ter Communicati	ons									
Comment Type E Name of primitive is	Comment Status s broken across lines	Α		bucket								
SuggestedRemedy Make sure primitive	e names do not break ac	ross lines.										
Response ACCEPT.	Response Status	С										

ACCEPT.

C/ 144 SC 144.1.4.4

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

C/ 144	SC 144.2.1	P 186	L 27	# 198	C/ 144	SC 144.2.1		P 186	L 27	# 5
Remein, Du	lane	Futurewei Tee	chnologies, Inc.		Hajduczer	nia, Marek		Charter Com	munications	
Comment Ty	ype TR C	Comment Status A			Comment	Туре Е	Comment S	Status A		bucke
187/28 -	the term timestamp - defined as a variat	ble			We us else	sually use the terr	m "forward" to o	describe the a	ction of delivering	frames somewhere
187/33 -	 something other th the variable that is a non italicized var 		iable that is beir	ig defined	Suggested Chang	<i>IRemedy</i> je "passing these	e frames" to "fo	rwarding these	e frames"	
187/53 - 188/2 - a	 "timestamp value" a field name "Times 	(which apparently is not stamp field"			Response ACCE		Response S	tatus C		
		riable (or maybe field?) " 'imestamp field value"	the limestamp	value pre-compensated						
l could g	go on;	·			C/ 144	SC 144.2.1.2	2	P 186	L 53	# 199
		'Timestamp" most of whi p drift" in DeregistrationT			Remein, D	Duane		Futurewei Te	chnologies, Inc.	
		'timestamp" none of which			Comment	Type TR	Comment S	Status A		
"timesta	amp value" and 11 ir	nstances of "timestamp of	drift")		We sh	ould be more sp	ecific about whi	ich TX & Rx cl	locks are being re	ferred to here.
We can	be nicer to the first	time reader.			Suggested	lRemedy				
SuggestedR	Remedy				Chang "At the		er shall track the	e transmit cloc	k, while at the ON	IU the counter shall
See rem	uggestedRemedy See remein_3ca_2_0719.pdf which shows all changes in marked text (remein_3ca_3_0719 omits change markings).					he receive clock.	" to			
omits ch	omits change markings).					OLT the counte	er shall track the	e xMII transmit	t clock, while at th	e ONU the counter
omits ch <i>Response</i>	c c ,	esponse Status C		·	"At the shall t	e OLT the counte rack the xMII reco	er shall track the eive clock."		t clock, while at th	e ONU the counter
Response	c c ,	esponse Status C			"At the shall tr <i>Response</i>	OLT the counte rack the xMII reco	er shall track the eive clock." <i>Response</i> S		t clock, while at th	e ONU the counter
Response ACCEP	T IN PRINCIPLE.			、	"At the shall tr <i>Response</i>	e OLT the counte rack the xMII reco	er shall track the eive clock." <i>Response</i> S		t clock, while at th	e ONU the counter
Response ACCEP Impleme http://w - 186 '27 - 186 '44 - 190 '10 it sets it	Ri T IN PRINCIPLE. ent the following cha ww.ieee802.org/3/ca 7-30 0 6, change text "Whe is LocalTime counte	anges from a/public/meeting_archive en an unregistered ONU er according to the value	receives the DIS in the Timestam	n_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received	"At the shall ti <i>Response</i> ACCE Chang "At the track t "At the	OLT the counte rack the xMII reco PT IN PRINCIPL ge OLT the counte he receive clock.	er shall track the eive clock." <i>Response S</i> E. E. er shall track the r shall track the er shall track the	tatus C e transmit cloc	k, while at the ON	e ONU the counter IU the counter shall It the ONU the counter
Response ACCEP Impleme http://ww - 186 '27 - 186 '20 - 186 '40 - 190 '10 it sets it MPCPD LocalTir	River State	anges from a/public/meeting_archive en an unregistered ONU	receives the DIS in the Timestam e DISCOVERY	n_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its	"At the shall tu <i>Response</i> ACCE Chang "At the track t "At the shall tu	OLT the counte rack the xMII reco PT IN PRINCIPL ge OLT the counte he receive clock. OLT the counte	er shall track the eive clock." <i>Response S</i> E. E. er shall track the r shall track the er shall track the	tatus C e transmit cloc	k, while at the ON	IU the counter shall
Response ACCEP Impleme http://ww - 186 '27 - 186 '40 - 190 '16 it sets it MPCPD LocalTir - 190 '20 - 190 '26	River State	anges from a/public/meeting_archive en an unregistered ONU or according to the value gistered ONU receives th n the value in the Timest	receives the DIS in the Timestam e DISCOVERY	n_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its	"At the shall tu <i>Response</i> ACCE Chang "At the track t "At the shall tu	OLT the counte rack the xMII reco PT IN PRINCIPL OLT the counte he receive clock. OLT the counte rack the 25GMII	er shall track the eive clock." <i>Response S</i> E. E. er shall track the r shall track the receive clock."	tatus C e transmit cloc	k, while at the ON	IU the counter shall
Response ACCEP Impleme http://ww - 186 '27 - 186 '40 - 190 '14 it sets it MPCPD LocalTir - 190 '20 - 190 '20 - 191 '40	River State	anges from a/public/meeting_archive en an unregistered ONU ir according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx	receives the DIS in the Timestam e DISCOVERY tamp field in the	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU."	"At the shall tu <i>Response</i> ACCE Chang "At the track t "At the shall tu Update	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. e OLT the counte rack the 25GMII e PICS. SC 144.2.1.2	er shall track the eive clock." <i>Response S</i> E. E. er shall track the r shall track the receive clock."	tatus C e transmit cloc e 25GMII trans	sk, while at the ON	IU the counter shall t the ONU the counter
Response ACCEP Impleme http://ww - 186 '27 - 186 '40 - 190 '16 it sets it MPCPD LocalTir - 190 '20 - 190 '20 - 191 '40 - 199 '4'	River State	anges from a/public/meeting_archive an an unregistered ONU r according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx "Up to seven LLIDs can	receives the DIS in the Timestam e DISCOVERY tamp field in the be reported by a	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU."	"At the shall ti <i>Response</i> ACCE Chang "At the track t "At the shall ti Update <i>CI</i> 144	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. o OLT the counte rack the 25GMII e PICS. SC 144.2.1.2 ilen	er shall track the eive clock." <i>Response S</i> E. E. er shall track the r shall track the receive clock."	tatus C e transmit cloc e 25GMII trans <i>P</i> 187 Broadcom	sk, while at the ON	IU the counter shall t the ONU the counter
Response ACCEP Impleme http://w - 186 '2' - 186 '40 - 190 '16 it sets it MPCPD LocalTir - 190 '20 - 190 '20 - 191 '40 - 199 '4' MPCPD field is u	River Standard Standa	anges from a/public/meeting_archive a an unregistered ONU r according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx "Up to seven LLIDs can PDUs also carry the <i>Ti check for the timestamp</i>	receives the DIS in the Timestam e DISCOVERY tamp field in the be reported by a imestamp fie drift error (see 1	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU." a single REPORT bld. The value of this 44.3.1.1)."	"At the shall ti Response ACCE Chang "At the track t "At the shall ti Update C/ 144 Kramer, G Comment	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. o OLT the counte rack the 25GMII e PICS. SC 144.2.1.2 ilen	er shall track the eive clock." <i>Response S</i> E. er shall track the " to er shall track the receive clock."	tatus C e transmit cloc e 25GMII trans <i>P</i> 187 Broadcom	sk, while at the ON	IU the counter shall t the ONU the counter # 269
Response ACCEP Impleme http://ww - 186 '27 - 186 '40 - 190 '16 it sets it MPCPD LocalTir - 190 '20 - 190 '20 - 191 '40 MPCPD field is u - 201 '6	River State	anges from a/public/meeting_archive a an unregistered ONU r according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx "Up to seven LLIDs can DUs also carry the <i>Ti check for the timestamp text: "The REGISTER_R</i>	receives the DIS in the Timestam e DISCOVERY tamp field in the be reported by a imestamp fie drift error (see 1 EQ MPCPDUs o	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU." a single REPORT eld. The value of this 44.3.1.1)."	"At the shall ti Response ACCE Chang "At the track t "At the shall ti Update C/ 144 Kramer, G Comment	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. OLT the counte rack the 25GMII e PICS. SC 144.2.1.2 silen Type T and missing refere	er shall track the eive clock." <i>Response S</i> E. er shall track the " to er shall track the receive clock."	tatus C e transmit cloc e 25GMII trans <i>P</i> 187 Broadcom	sk, while at the ON	IU the counter shall t the ONU the counter # 269
Response ACCEP Impleme http://ww - 186 '2' - 186 '4' - 190 '10 it sets it MPCPD LocalTir - 190 '20 - 191 '40 - 199 '20 - 191 '40 - 199 '20 Field is u - 201 '6 <i>Time time of t</i>	River State	anges from a/public/meeting_archive a an unregistered ONU r according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx "Up to seven LLIDs can DUs also carry the <i>Ti check for the timestamp text: "The REGISTER_R e value of this field is use</i>	receives the DIS in the Timestam e DISCOVERY tamp field in the be reported by a imestamp fie drift error (see 1 EQ MPCPDUs o	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU." a single REPORT eld. The value of this 44.3.1.1)."	"At the shall ti Response ACCE Chang "At the track t "At the shall ti Update C/ 144 Kramer, G Comment TBD a Suggested	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. OLT the counte rack the 25GMII e PICS. SC 144.2.1.2 silen Type T and missing refere	er shall track the eive clock." <i>Response S</i> E. Er shall track the "to er shall track the receive clock."	tatus C e transmit cloc e 25GMII trans 25GMII trans P187 Broadcom Status A	sk, while at the ON	IU the counter shall t the ONU the counter # 269
Response ACCEP Impleme http://ww - 186 '27 - 186 '44 - 190 '10 it sets it MPCPD LocalTir - 190 '20 - 191 '40 - 199 '4' MPCPD field is u - 201 '6 <i>Time time of t - 243 '17</i>	River State	anges from a/public/meeting_archive a an unregistered ONU r according to the value gistered ONU receives th n the value in the Timest nge to TimestampTx "Up to seven LLIDs can DUs also carry the <i>Ti check for the timestamp text: "The REGISTER_R e value of this field is use</i>	receives the DIS in the Timestam e DISCOVERY tamp field in the be reported by a imestamp fie drift error (see 1 EQ MPCPDUs o ed by the OLT to	a_3ca_2_0719.pdf: SCOVERY MPCPDUs, p field in the received MPCPDUs, it sets its received MPCPDU." a single REPORT eld. The value of this 44.3.1.1)." carry the measure the round-trip	"At the shall ti Response ACCE Chang "At the track t "At the shall ti Update C/ 144 Kramer, G Comment TBD a Suggested	e OLT the counte rack the xMII reco PT IN PRINCIPL e OLT the counte he receive clock. e OLT the counte rack the 25GMII i e PICS. SC 144.2.1.2 silen Type T ind missing reference (Remedy e with a cross-reference)	er shall track the eive clock." <i>Response S</i> E. Er shall track the "to er shall track the receive clock."	tatus C e transmit cloc e 25GMII trans 25GMII trans <i>P</i> 187 Broadcom Status A 4.3.1	sk, while at the ON	IU the counter shall t the ONU the counter # 269

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/144Page 78 of 103COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC144.2.1.28/4/2019 8:18:19 AMSORT ORDER: Clause, Subclause, page, lineSC144.2.1.2SC144.2.1.2144.2.1.2

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C/ 144 SC 144.2.1.2 P187	L1	# 480	C/ 144 SC 144.2.1.2	2 <i>P</i> 187	L 1	# 6
Slavick, Jeff Broadcom			Hajduczenia, Marek	Charter Com	munications	
Comment Type TR Comment Status A TBD present for LocalTime reference.		TBD	Comment Type TR Missing reference to C	Comment Status A		TBD
SuggestedRemedy			SuggestedRemedy			
Replace TBD with pointer to appropriate refernce cla	ause			ment which could be referenc	ed to. Strike the	whole sentence?
Response Response Status C ACCEPT IN PRINCIPLE.			Response ACCEPT IN PRINCIP	Response Status C LE.		
See comment #269			See comment #269			
C/ 144 SC 144.2.1.2 P187	L1	# 200	C/ 144 SC 144.2.1.	2 P 187	L 1	# 342
Remein, Duane Futurewei Teo	chnologies, Inc.		Laubach, Mark	Broadcom		
Comment Type TR Comment Status A			Comment Type E	Comment Status A		TBD
Either this statement is incorrect or the Control Pars			Resolve the red TBD t	text to cross reference to the	appropriate Claus	se 142 subclause.
this variable is updated with the received timestamp (see 144.2.1.5)". Note that the ProcessTimestamp of			SuggestedRemedy			
· ,		los Edearnine once.	Make it so.			
SuggestedRemedy			Make it so.	Pasnansa Status C		
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else	e ONU		Make it so. <i>Response</i> ACCEPT IN PRINCIP	Response Status C LE.		
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17).	e ONU		Response	•		
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17).	e ONU		Response ACCEPT IN PRINCIP	LE.	L1	# 390
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C	e ONU		Response ACCEPT IN PRINCIP See comment #269	LE.	L1	# 390
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P187	e ONU e statement in Pr		Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2	LE. 2 P187 Mellanox Comment Status A	L1	# [<u>390</u> TBD
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. P187	e ONU e statement in Pr	rocessTimestamp	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference	LE. 2 P187 Mellanox Comment Status A	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P 187 Marris, Arthur Cadence Des Comment Type TR Comment Status	e ONU e statement in Pr	rocessTimestamp	Response ACCEPT IN PRINCIP See comment #269 C/ 144 SC 144.2.1.1 Dawe, Piers Comment Type E	LE. 2 P187 Mellanox Comment Status A	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P187 Marris, Arthur Cadence Des	e ONU e statement in Pr	rocessTimestamp # 278	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference SuggestedRemedy	LE. 2 P187 Mellanox Comment Status A ce	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. P187 Marris, Arthur Cadence Des Comment Type TR Comment Status ATBD reference to Clause 142 needed} SuggestedRemedy	e ONU e statement in Pr	rocessTimestamp # 278	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference	LE. 2 P187 Mellanox Comment Status A ce Response Status C	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P 187 Marris, Arthur Cadence Des Comment Type TR Comment Status A {TBD reference to Clause 142 needed} SuggestedRemedy Add appropriate reference	e ONU e statement in Pr	rocessTimestamp # 278	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference SuggestedRemedy Response	LE. 2 P187 Mellanox Comment Status A ce Response Status C	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P187 Marris, Arthur Cadence Des Comment Type TR Comment Status A {TBD reference to Clause 142 needed} SuggestedRemedy Add appropriate reference	e ONU e statement in Pr	rocessTimestamp # 278	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference SuggestedRemedy Response ACCEPT IN PRINCIP	LE. 2 P187 Mellanox Comment Status A ce Response Status C	L1	
SuggestedRemedy Copy the "// The following line is executed only in the LocalTime = Timestamp;" lines to the end of the else definition (pg 188 line 17). Response Response Status C ACCEPT IN PRINCIPLE. See comment #182. C/ 144 SC 144.2.1.2 P187 Marris, Arthur Cadence Des Comment Type TR Comment Status A {TBD reference to Clause 142 needed} SuggestedRemedy Add appropriate reference Response C	e ONU e statement in Pr	rocessTimestamp # 278	Response ACCEPT IN PRINCIP See comment #269 Cl 144 SC 144.2.1.2 Dawe, Piers Comment Type E Missing cross-reference SuggestedRemedy Response ACCEPT IN PRINCIP	LE. 2 P187 Mellanox Comment Status A ce Response Status C	L1	

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 79 of 103 8/4/2019 8:18:19 AM

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C/ 144 SC	\$ 144.2.1.2	P 187	L1	# 107		C/ 144	SC	144.2.1.3	P187	L 9	# 201
Anslow, Pete		Ciena				Remein, D	Duane		Futurewei Te	chnologies, Inc.	
Comment Type	TR	Comment Status A			TBD	Comment		Е	Comment Status A		bucke
		se 142 needed}" is not accepta dards Association ballot.	ble content fo	or a draft that is		What	is a PLI	D? The m	nemonic has not yet been i	ntroduced.	
		dards Association Dallot.				Suggested					
SuggestedReme replace "{TB	-	to Clause 142 needed}" with a	suitable refe	rence.					ical Layer ID (PLID)" e "Physical Layer ID (PLID)	" to "PLID"	
Response		Response Status C				Response			Response Status C		
ACCEPT IN	PRINCIPLE					ACCE	PT.				
See comme	nt #269					C/ 144	SC	144.2.1.3	P 187	L 35	# 202
C/ 144 SC	144.2.1.2	P 189	L1	# 298		Remein, D	Duane		Futurewei Te	chnologies, Inc.	
Wienckowski, Na	atalie	General Motors				Comment		ER	Comment Status A		
Comment Type	TR	Comment Status A			TBD	The re line 40		e to T able	31A-1 should not be forest	green but rather a l	ive link here and at
There is a re	ed highlighted	d TBD in the document.				Suggested		h.			
SuggestedReme	edy					00	omment	-			
0 (e to Clause 142 needed}				Response			Response Status C		
	riate subclau	se in Clause 142.				ACCE					
Response ACCEPT IN		Response Status C									
ACCEPT IN	PRINCIPLE					C/ 144		144.2.1.5	P 188	L 48	# 315
See comme	nt #269					Lynskey, E		_	Broadcom		
C/ 144 SC	144.2.1.3	P 187	L1	# 444		Comment		T Citabaur	Comment Status A		
Powell, William		Nokia							that the first argument pas r as being the opcode.	sed to MCII is the	DA. In 144.1.4.2, It
Comment Type	TR	Comment Status A			TBD	Suggested	dRemed	Iv	U .		
Current text: "For accurac		clock, see {TBD reference to 0	Clause 142 no	eeded}."		Remo	ve DA f	-	gument list.		
SuggestedReme	•	, ,				Response			Response Status C		
Change to re	ead:					ACCE	PT.				
For accuracy	y of receive of	clock, see 142.4.3.1.									
Response		Response Status C									
ACCEPT IN	PRINCIPLE										
	nt #269										

C/ 144 SC 144.2.1.5

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C/ 144 SC 144.3.1	P189	L 34	# 203	C/ 144 SC	C 144.3.1.1	P 192	L 34	# 204
Remein, Duane	Futurewei Tec	hnologies, Inc.		Remein, Duane)	Futurewei Te	chnologies, Inc.	
Comment Type E	Comment Status A		bucket	Comment Type	Е	Comment Status A		bucke
"To main purpose of the wrong.	e MPCP" or not "To main pur	pose of the MPCF	P" Either way "To" is		ot been intro	duced.		
SuggestedRemedy				SuggestedRem	-	agement Link ID (MLID)"		
Change:						e "Management Link ID (MLID)	.ID) carries" to "T	he MLID carries"
"To main purpose of the "The main purpose of the				Response		Response Status C	,	
Response	Response Status C			ACCEPT.				
ACCEPT.				C/ 144 SC	C 144.3.1.1	P 192	L 37	# 205
C/ 144 SC 144.3.1.1	P 191	L 33	# 343	Remein, Duane)	Futurewei Te	chnologies, Inc.	-
Laubach, Mark	Broadcom			Comment Type	т	Comment Status A		
Comment Type E	Comment Status A		bucket			Indant as a properly implem		imestamp function
		t the end of the se				ge timestamp difference is	accommodated.	
For consitency, stateme	ents 1) and 2) need periods a	t the end of the se		ensures the SuggestedRem		ge timestamp difference is	accommodated.	
For consitency, stateme SuggestedRemedy		t the end of the se		SuggestedRem Change:	edy			o overceted and the
For consitency, stateme SuggestedRemedy Make it so.	ents 1) and 2) need periods a	t the end of the se		<i>SuggestedRem</i> Change: "This large	<i>edy</i> difference is	detected immediately after	the registration is	s expected and the
For consitency, stateme SuggestedRemedy Make it so. Response		t the end of the se		SuggestedRem Change: "This large ONU shall r "This large	edy difference is not recognize difference th	detected immediately after a it as a timestamp drift erro at is detected immediately a	the registration is r." to after registration i	is expected and the
For consitency, stateme SuggestedRemedy	ents 1) and 2) need periods a	t the end of the se		SuggestedRem Change: "This large ONU shall r "This large	edy difference is not recognize difference th	detected immediately after a it as a timestamp drift erro	the registration is r." to after registration i	is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT.	ents 1) and 2) need periods a <i>Response Status</i> C	t the end of the se	entence.	SuggestedRem Change: "This large ONU shall r "This large	edy difference is not recognize difference th	detected immediately after a it as a timestamp drift erro at is detected immediately a	the registration is r." to after registration i	is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. C/ 144 SC 144.3.1.1	ents 1) and 2) need periods a Response Status C P192	L 29		SuggestedRem Change: "This large ONU shall r "This large ONU does Response	edy difference is not recognize difference th	detected immediately after e it as a timestamp drift erro at is detected immediately a e it as a timestamp drift erro <i>Response Status</i> C	the registration is r." to after registration i	is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. C/ 144 SC 144.3.1.1 Hajduczenia, Marek	ents 1) and 2) need periods a <i>Response Status</i> C <i>P</i> 192 Charter Comm	L 29	# 39	SuggestedRem Change: "This large ONU shall r "This large ONU does Response ACCEPT IN	edy difference is not recognize difference th not recognize	detected immediately after e it as a timestamp drift erro at is detected immediately a e it as a timestamp drift erro <i>Response Status</i> C	the registration is r." to after registration i	is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. C/ 144 SC 144.3.1.1 Hajduczenia, Marek Comment Type ER	ents 1) and 2) need periods a Response Status C P 192 Charter Comn Comment Status R	L 29	entence.	SuggestedRem Change: "This large ONU shall r "This large ONU does Response ACCEPT IN Change:	edy difference is not recognize difference th not recognize N PRINCIPLE	detected immediately after e it as a timestamp drift erro at is detected immediately a e it as a timestamp drift erro <i>Response Status</i> C	the registration is or." to after registration i or (see ProcessTi	is expected and the imestamp 144.2.1.4)."
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. Cl 144 SC 144.3.1.1 Hajduczenia, Marek Comment Type ER "can" used and not inte	ents 1) and 2) need periods a Response Status C P 192 Charter Comn Comment Status R	L 29	# 39	SuggestedRem Change: "This large ONU shall r "This large ONU does Response ACCEPT IN Change: "This large ONU shall r	edy difference is not recognize difference th not recognize N PRINCIPLE difference is not recognize	detected immediately after e it as a timestamp drift error at is detected immediately a e it as a timestamp drift error <i>Response Status</i> C E. detected immediately after e it as a timestamp drift error	the registration is r." to after registration i or (see ProcessTi the registration is r." to	is expected and the imestamp 144.2.1.4)." s expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. Cl 144 SC 144.3.1.1 Hajduczenia, Marek Comment Type ER "can" used and not inte SuggestedRemedy	ents 1) and 2) need periods a <i>Response Status</i> C <i>P</i> 192 Charter Comm <i>Comment Status</i> R ended per Style Guide	L 29 nunications	# 39 can-vs-may	SuggestedRem Change: "This large ONU shall r "This large ONU does Response ACCEPT IN Change: "This large ONU shall r "This large	edy difference is not recognize difference th not recognize N PRINCIPLE difference is not recognize difference th	detected immediately after a it as a timestamp drift error at is detected immediately a e it as a timestamp drift error <i>Response Status</i> C detected immediately after e it as a timestamp drift error at is detected immediately a	the registration is r." to after registration i or (see ProcessTi the registration is r." to after registration i	is expected and the imestamp 144.2.1.4)." s expected and the is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. Cl 144 SC 144.3.1.1 Hajduczenia, Marek Comment Type ER "can" used and not inte SuggestedRemedy	ents 1) and 2) need periods a <i>Response Status</i> C <i>P</i> 192 Charter Comm <i>Comment Status</i> R ended per Style Guide a can be independently detect	L 29 nunications	# 39 can-vs-may	SuggestedRem Change: "This large ONU shall r "This large ONU does i Response ACCEPT IN Change: "This large ONU shall r "This large ONU does i 144.2.1.4)."	edy difference is not recognize difference th not recognize difference is not recognize difference th not recognize	detected immediately after a it as a timestamp drift error at is detected immediately a e it as a timestamp drift error <i>Response Status</i> C detected immediately after a it as a timestamp drift error at is detected immediately a e it as a timestamp drift error	the registration is r." to after registration i or (see ProcessTi the registration is r." to after registration i	is expected and the imestamp 144.2.1.4)." s expected and the is expected and the
For consitency, stateme SuggestedRemedy Make it so. Response ACCEPT. Cl 144 SC 144.3.1.1 Hajduczenia, Marek Comment Type ER "can" used and not inte SuggestedRemedy Change "This condition	ents 1) and 2) need periods a <i>Response Status</i> C <i>P</i> 192 Charter Comm <i>Comment Status</i> R ended per Style Guide a can be independently detect	L 29 nunications	# 39 can-vs-may	SuggestedRem Change: "This large ONU shall r "This large ONU does i Response ACCEPT IN Change: "This large ONU shall r "This large ONU does i 144.2.1.4)."	edy difference is not recognize difference th not recognize difference is not recognize difference th not recognize	detected immediately after a it as a timestamp drift error at is detected immediately a e it as a timestamp drift error <i>Response Status</i> C detected immediately after e it as a timestamp drift error at is detected immediately a	the registration is r." to after registration i or (see ProcessTi the registration is r." to after registration i	is expected and the imestamp 144.2.1.4)." s expected and the is expected and the

C/ 144 SC 144.3.1.1

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C/ 144 S	SC 144.3.1.2	P 192	L 44	# 206	C/ 144	SC 144.3.4.1	P 194	L 46	# 208
Remein, Duan	е	Futurewei Tec	hnologies, Inc.		Remein, Dua	ne	Futurewei Te	chnologies, Inc.	
Comment Type	e E	Comment Status A		bucket	Comment Typ	e T	Comment Status A		
		e of the word allowances in th he same thing.	e draft. We shou	ld not indiscriminately			medium access by the ONL oduce new terms here.	Js" something oth	er than GATES?
SuggestedRen	nedy				SuggestedRe	medy			
change to	allocations				Change:				
Response ACCEPT.		Response Status C			medium a	TDM-based access by the GATE messag			
C/ 144 S	C 144.3.2	P193	L 5	# 344	Response		Response Status C		
Laubach, Mark	-	Broadcom	20	<i>n</i> 344	ACCEPT	IN PRINCIPL	E.		
Comment Type	e E	Comment Status A		bucket	Comment	type changed	d to "T"		
Only one o on page 19 SuggestedRen	93, line 52.	eniated (bulleted) have an er	ding period. Sar	ne for list beginning			ccess" is an explanation of ") carries all MPCPDUs, not c		eration", not an
00		have consistent (or appropria	ate) line endinas		Rephrase	the sentence	as follows: "The Physical La	ayer ID (PLID) ca	rries messages use
Response	N PRINCIPLI	Response Status C	,			critical Nx250 cess to PON	C-EPON operations, such as medium."	ONU registration	ns and arbitration of
Remove ".	" at the end o	f the last sentence.							
C/ 144 S	SC 144.3.2	P 193	L12	# 207					
Remein, Duan	е	Futurewei Tec	hnologies, Inc.						
Comment Type "as separa		Comment Status A should be "a separate instand	e"	bucket					
SuggestedRen per comme									
Response ACCEPT I	N PRINCIPLI	Response Status C E.							
Per comm	ent. Also sho	uld be "are created"							

C/ 144 SC 144.3.4.1 Page 82 of 103 8/4/2019 8:18:19 AM

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	SC 144.3.5	P 195	L 44	# 209	C/ 144	SC 144.3.6	P19	6 L2	7	# 210	
Remein, D	Duane	Futurewei Tec	chnologies, Inc.		Remein, D	Duane	Future	wei Technologie	es, Inc.		
Comment	Type TR Co	omment Status A			Comment	Туре Т	Comment Status	Α			
For ex	ample registered ONL	nents between Table 144 Js accepting BCAST_PL					greements between th	U			
	n pg 196 line 17.						s on pg 232 / Fig 144	30. and in CI 14	4.4.3 pg 23	32 / Fig 144-30	
Suggestee					Suggested						
"a reg	196 line 12 change: istered ONU shall accu istered ONU accepts a					ationAddress I eAddress	In Figure Destination Address Source Address Operand List				
Chang	ge Table 144-1 as show	wn in remein_3ca_1_071	19.pdf			_					
Updat	e PICS accordingly.					ge Figures to agr nt be easier to ch	ee with the text (assu ange the text)	ning these are c	onsidered	variables, otherwi	ise
Response	e Re	sponse Status C			Response		Response Status	С			
ACCE	PT IN PRINCIPLE.				ACCE	PT.					
Implei	ment changes per				C/ 144	SC 144.3.6	P19	6 L3	5	# 40	
http://	www.ieee802.org/3/ca	/public/meeting_archive/	/2019/07/kramer_	3ca_9_0719.pdf, with	Hajduczer			er Communicatio			
	ns for changes in	/public/meeting_archive/	/2010/07/kramor	200 8 0710 pdf	Comment		Comment Status		//10	can-vs-i	mov
mp.//	www.ieeeooz.org/3/ca/	/public/meeting_archive/.	2019/07/Klamel_	5ca_o_07 19.pul.		51	ended per Style Guide			Carrevser	шау
					Call	useu anu not inte	nueu per Style Gulue				
		ade, update PICS, remov	iving items LL1a,	LL1b, and LL2. Insert	_						
new P	PICS 144.5.4.2 per	•	-		Suggested						
new P	PICS 144.5.4.2 per	/public/meeting_archive/	-		Chang	ge "For MPCPDL	s originating at the O			s of" to "For	
new P http:// Chang	PICS 144.5.4.2 per www.ieee802.org/3/ca ge also "configured by	/public/meeting_archive/ management" to "assigr	2019/07/hajduczo	enia_3ca_2_0719.pdf.	Chang	ge "For MPCPDL DUs originating	s originating at the O at the OLT, this may Response Status	be the address o		s of" to "For	
new P http:// Chang impler	PICS 144.5.4.2 per www.ieee802.org/3/ca/ ge also "configured by menting previous contr	/public/meeting_archive/ management" to "assigr ibutions.	/2019/07/hajduczo	enia_3ca_2_0719.pdf. by management" after	Chang MPCP	ge "For MPCPDL PDUs originating	at the OLT, this may	be the address o		s of" to "For	
new P http:// Chang impler C/ 144	PICS 144.5.4.2 per www.ieee802.org/3/ca ge also "configured by menting previous contr SC 144.3.5	/public/meeting_archive/ management" to "assign ibutions. P196	2019/07/hajduczo	enia_3ca_2_0719.pdf.	Chang MPCP <i>Response</i> ACCE	ge "For MPCPDL PDUs originating PT.	at the OLT, this may Response Status	be the address o			
new P http:// Chang impler Cl 144 Laubach,	PICS 144.5.4.2 per www.ieee802.org/3/ca, ge also "configured by menting previous contr SC 144.3.5 Mark	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom	/2019/07/hajduczo	enia_3ca_2_0719.pdf. by management" after # [<u>345</u>	Chang MPCP Response ACCE C/ 144	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1	at the OLT, this may Response Status	c 7 L1		s of" to "For # <u>346</u>	
new P http:// Chang impler C/ 144 Laubach, Comment	PICS 144.5.4.2 per www.ieee802.org/3/ca/ ge also "configured by menting previous contr SC 144.3.5 Mark Type E Co	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom omment Status A	/2019/07/hajduczo ned to this ONU b 	enia_3ca_2_0719.pdf. by management" after # [<u>345</u> bucket	Chang MPCP Response ACCE C/ 144 Laubach,	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1 Mark	at the OLT, this may Response Status P19 Broac	c c 7 L1 com		# 346	
new P http:// Chang impler Cl 144 Laubach, Comment First li	PICS 144.5.4.2 per www.ieee802.org/3/ca/ ge also "configured by menting previous contr <i>SC</i> 144.3.5 Mark <i>Type</i> E <i>Cu</i> ist item ends in a ";", th	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom	/2019/07/hajduczo ned to this ONU b 	enia_3ca_2_0719.pdf. by management" after # [<u>345</u> bucket	Chang MPCP Response ACCE C/ 144 Laubach, Comment	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1 Mark Type E	at the OLT, this may Response Status P19 Broac Comment Status	oe the address o C 77 L1 com A	f"	# <u>346</u>	cket
new P http:// Chang impler Cl 144 Laubach, Comment First li	PICS 144.5.4.2 per www.ieee802.org/3/ca/ ge also "configured by menting previous contr <i>SC</i> 144.3.5 Mark <i>Type</i> E <i>Cu</i> ist item ends in a ";", th	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom omment Status A	/2019/07/hajduczo ned to this ONU b 	enia_3ca_2_0719.pdf. by management" after # [<u>345</u> bucket	Chang MPCP Response ACCE C/ 144 Laubach, Comment Move	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1 Mark <i>Type</i> E the page break f	at the OLT, this may Response Status P19 Broad Comment Status rom before this line to	ore the address of C C 17 <i>L</i> 1 C A after this parage	f"	# <u>346</u>	cket
new P http:// Chang impler C/ 144 Laubach, Comment First li Suggested	PICS 144.5.4.2 per www.ieee802.org/3/ca ge also "configured by menting previous contr <i>SC</i> 144.3.5 Mark <i>Type</i> E <i>C</i> ist item ends in a ";", th <i>dRemedy</i>	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom omment Status A	/2019/07/hajduczo ned to this ONU b L14	enia_3ca_2_0719.pdf. by management" after # [<u>345</u> bucket	Chang MPCP Response ACCE C/ 144 Laubach, Comment Move looks	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1 Mark Type E the page break f like it is missing	at the OLT, this may Response Status P19 Broac Comment Status	ore the address of C C 17 <i>L</i> 1 C A after this parage	f"	# <u>346</u>	cket
new P http:// Chang impler Cl 144 Laubach, Comment First li Suggested Editor	PICS 144.5.4.2 per www.ieee802.org/3/ca/ ge also "configured by menting previous contr SC 144.3.5 Mark Type E Ca ist item ends in a ";", th dRemedy to choose how to have	/public/meeting_archive/ management" to "assign ibutions. P196 Broadcom omment Status A ne other items have no e	/2019/07/hajduczo ned to this ONU b L14	enia_3ca_2_0719.pdf. by management" after # [<u>345</u> bucket	Chang MPCP Response ACCE C/ 144 Laubach, Comment Move looks	ge "For MPCPDL PDUs originating PT. SC 144.3.6.1 Mark Type E the page break f like it is missing dRemedy	at the OLT, this may Response Status P19 Broad Comment Status rom before this line to	ore the address of C C 17 <i>L</i> 1 C A after this parage	f"	# <u>346</u>	cket
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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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Approved Responses IEEE P802.3ca D2.0 25/50G-EPON Task Force Initial Working Group ballot comments C/ 144 SC 144.3.6.1 P197 L28 # 41 C/ 144 SC 144.3.6.1 P198 L 20 # 212 Hajduczenia, Marek **Charter Communications** Remein, Duane Futurewei Technologies, Inc. Comment Type ER Comment Status R Comment Type т Comment Status A can-vs-mav Here we use the phrase "The value of 0 in this field signifies an empty ..." on pg 200 line 10 "can" used and not intended per Style Guide we use "The value of zero in this field signifies an empty ..." meanwhile we have a good SuggestedRemedy constant defined for this - ESC_PLID. Change "Up to seven envelope allocations can be carried" to "Up to seven envelope SuggestedRemedy allocations may be carried" Change both locations to "When this field is set to the value of ESC_PLID then it signifies Response Response Status C an empty ..." REJECT. Response Response Status C ACCEPT IN PRINCIPLE. "Can" (i.e., "is able" or "is capable") is correct and is intended. "May" (i.e., "is allowed" or "is permitted") is semantically wrong here Change both locations to "When this field is set to the value of ESC_LLID (see Table 144-# 211 C/ 144 SC 144.3.6.1 P197 L48 1) then it signifies an empty ..." Remein, Duane Futurewei Technologies, Inc. C/ 144 SC 144.3.6.2 P199 / 40 # 42 Comment Type Comment Status A TR Haiduczenia. Marek Charter Communications We seem to have lost the definition of StartTime. Comment Type ER Comment Status R can-vs-mav SuggestedRemedy "can" used and not intended per Style Guide Add after ChannelMap description SuggestedRemedy "- StartTime: Change "Up to seven LLIDs can be reported by a single" to "Up to seven LLIDs may be This 32-bit unsigned integer value represents the start time of the transmission window reported by a single" (burst), expressed in the units of EQT. The start time is compared to the <I>LocalTime</I>. to correlate the start of the grant." Response Response Status C Response Response Status C REJECT. ACCEPT IN PRINCIPLE. "Can" (i.e., "is able" or "is capable") is correct and is intended. "May" (i.e., "is allowed" or "is

permitted") is semantically wrong here

Per comment, but StartTime should be in italics. No comma after LocalTime.

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C/ 144 SC 144.3.6.2 P199 L 47 # 213	C/ 144 SC 144.3.6.2	P 200 L 2	# 214
Remein, Duane Futurewei Technologies, Inc.	Remein, Duane	Futurewei Technologies, Inc.	
Comment Type TR Comment Status R	Comment Type T Comm	nent Status D	
The description for the timestamp field is repeated 7x. We don't do this for other variable	We should make it clear that GL	IDs are not included in the NonEmp	ptyQueues count.
definitions 197/36	SuggestedRemedy		
199/47	After "The number of LLIDs" add	d " (PLID, MLID, and ULIDs)"	
201/13 203/4		nse Status Z	
204/41	REJECT.		
206/4 209/1	This comment was WITHDRAW	N by the commenter.	
Similar situation exist for other fields.	Comment type changed to "T"		
SuggestedRemedy	C/ 144 SC 144.3.6.3	P 201 L6	# 215
Remove the description for all but the first instance of this field (pg 197 line 36). Note that the first instance of this is generic and does not mention OLT or ONU (which is good). Add	Remein, Duane	Futurewei Technologies, Inc.	
a cross reference to the first definition instance "See 144.3.6.1" (with a live link of course).	Comment Type E Comm	nent Status A	bucket
Do the same for the following field def's (pg/line fieldname xRef):	The variable name Timestamp s	should not cross the line	
200/9 LLID "See 144.3.6.1"	SuggestedRemedy		
206/9 ChannelMap "See 144.3.6.1" 207/38 SP1Length "See 144.3.6.4"	per comment		
207/42 SP2Length "See 144.3.6.4" 207/46 SP3Length "See 144.3.6.4"	Response Respo ACCEPT.	nse Status C	
Response Response Status U	C/ 144 SC 144.3.6.3	P 201 L 22	# 347
REJECT.	Laubach, Mark	Broadcom	
Comment type changed to "T"	Comment Type E Comm	nent Status A	bucket
 Definitions of ChannelMap are different for GATE and DISCOVERY MPCPDUs Definitions of timestamp should be corrected and will therefore be different. Definitions of LLID are different for GATE and REPORT MPCPDUs Definitions of SPnLength are different in DISCOVERY and REGISTER MPCPDUs 	at the end of an item in the Com reception" has an ending period	e should be some consistency on whether whether the some consistency on whether the some some source of the some source that the source of the	ne cases "Ignored on est being consistent
ů	SuggestedRemedy		
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.	Editor to choose how to have co	nsistent (or appropriate) line ending	js
		nse Status C	
	ACCEPT IN PRINCIPLE.		
	Remove periods within tables w	hen a non-complete sentence is use	ed.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G	/general	C/ 144	Page 85 of 103

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

Nicholl, Shawn Xilinx Comment Type E Comment Status A bucket In "Figure 144-14 - REGISTER_REQ MPCPDU" unexpected use of hyphen. Contrast with "Figure 103-26 - REGISTER_REQ MPCPDU" in existing 802.3-2018 which shows "Length/Type = 0x8808" and "Opcode = 0x0004". There are other figures in the document with unexpected hyphen (eg. Figure 144-30, 144-31, 144-32). Comment Type E Comment Type E Comment Status A bucket SuggestedRemedy Remove the hyphen from the figures. Response Response Status C ACCEPT.	omment Type TR Comment Status A 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), At the very lease these should agree. 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. uggestedRemedy 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 (adjust Pad to 27 also). esponse Response Status C	Comment Type Is "destination SuggestedReme replace with Response ACCEPT. Cl 144 SC Remein, Duane Comment Type	E on address" edy "Destination	Comment Status the same as "Destina nAddress" Response Status P20	A ation Address" and "D C 3 <i>L</i> 11	buck
PendingEnvelopes is on 8-bit value in the text but a 16 bit field in Fig 144-14 whereas ExhoPendingEnvelopes is only 8-bits in both text and fig 144-16 (pg 203/204). It are sonable size of these to a 10 bits. (4 x larger) Likewise increase size of text of these to a 10 bits. (4 x larger) It is a consider increasing size of EchoPendingEnvelopes on pg 203 line 33 and in Figure 144-15 (adjust Pad to 27 also). It is a consider increasing size of EchoPendingEnvelopes on pg 203 line 33 and in Figure 144-15 (adjust Pad to 27 also). It is a consider increase size of text of these to a 10 bits. (4 x larger) Likewise increase size of text of these to a 10 bits. (4 x larger) It is a nusigned 8-bit value bignifying the maximum number of envelope allocations" It is a nusigned 8-bit value bignifying the maximum number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope descriptors to This is an unsigned 8-bit value holding the number of envelope	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), At the very lease these should agree. 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. uggestedRemedy 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 (adjust Pad to 27 also). esponse Response Status	Is "destination SuggestedReme replace with Response ACCEPT. C/ 144 SC Remein, Duane Comment Type	on address" edy "Destination C 144.3.6.4	the same as "Destina nAddress" <i>Response Status</i> P20	ation Address" and "Do C 3 <i>L</i> 11	DestinationAddress"?
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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 P 202 L 22 # 458 Nicholl, Shawn Xilinx Figure 103-26 REGISTER_REQ MPCPDU" in existing 802.3-2018 which shows "Length/Type = 0x8808" and "Opcode = 0x0004". There are other figures in the document viti unexpected hyphen (eg. Figure 144-30, 144-31, 144-32). SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy Response Status C Response Response Status C ACCEPT IN PRINCIPLE. C ACCEPT. ACCEPT.	allocations" to "This is an unsigned 16-bit value signifying the maximum number of envelope allocations" Change "This is an unsigned 8-bit value holding the number of envelope descriptors" to	Change "physical lay "PLID (see	edy ver identifier	(PLID, see 144.3.4.1		
C/ 144 SC 144.3.6.3 P 202 L 22 # 458 Vicholl, Shawn Xilinx Remein, Duane Futurewei Technologies, Inc. Comment Type E Comment Status A MLID has already been introduced. In "Figure 103-26 - REGISTER_REQ MPCPDU" in existing 802.3-2018 which shows "Length/Type = 0x8808" and "Opcode = 0x0004". There are other figures in the document with unexpected hyphen (eg. Figure 144-30, 144-31, 144-32). SuggestedRemedy Change: "management link identifier (MLID, see 144.3.4.2)" to "MLID, (see 144.3.4.2)" SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Response Status C	In Figure 144–15, change size of EchoPendingEnvelopes from 1 to 2, and decrease pad	ACCEPT.			-	
Nicholl, Shawn Xilinx Comment Type E Comm						
In "Figure 144-14 - REGISTER_REQ MPCPDU" unexpected use of hyphen. Contrast with "Figure 103-26 - REGISTER_REQ MPCPDU" in existing 802.3-2018 which shows "Length/Type = 0x8808" and "Opcode = 0x0004". There are other figures in the document with unexpected hyphen (eg. Figure 144-30, 144-31, 144-32). SuggestedRemedy Remove the hyphen from the figures. Response Response Status C ACCEPT IN PRINCIPLE. SuggestedRemedy	licholl, Shawn Xilinx	Comment Type	Е	Comment Status		
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Response Response Status C ACCEPT IN PRINCIPLE.	uggestedRemedy	Response	,	Response Status	с	
ACCEPT IN PRINCIPLE.	Remove the hyphen from the figures.	ACCEPT.		•		
See comment #488.						
	See comment #488.					

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 144.3.6.4

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C/ 144	SC 144.3.6.5	P 204	L 39	# 108	C/ 144 SC	144.3.6.6	P 207	L19	# 221
Anslow, Pete	Э	Ciena			Remein, Duane		Futurewei Tecl	hnologies, Inc.	
Comment Ty	rpe E	Comment Status A		bucket	Comment Type	Е	Comment Status D		
		e a cross-reference. 16" on page 208, line 52			Improper left	margin. Re	set para style to T,text		
SuggestedRe	•	10 on page 200, inte 02			SuggestedRemed	dy			
00		and "Figure 144-16" on page	19 208 line 52 to	he cross-references	per comment				
Ũ		0	je 200, inte 62 te		Proposed Respor	nse	Response Status Z		
Response ACCEPT	r	Response Status C			REJECT.				
				"	This commer	nt was WITI	HDRAWN by the commenter		
Cl 144 Remein, Dua	SC 144.3.6.6	P 206	L17 chnologies, Inc.	# 220	This is a cont	tinuation of	text defining DiscoveryInfo fi	eld.	
Comment Ty		Comment Status A	chilologies, inc.		C/ 144 SC	144.3.6.6	P207	L 20	# 325
	,	signing timestamp) we use	LocalTime not lo	cal clock. It would be	Lynskey, Eric		Broadcom	-20	
better if v	we were consiste	ent.			Comment Type	т	Comment Status A		
SuggestedRe	emedy				51	-	clear how the ONU should rea	act when an OLT	advertises multiple
Change	"the local clock"	to "LocalTime" (in italics)			speeds during	g a discove	ry attempt. There is no desc	ription of how the	ONU should handle
Response		Response Status C				•	existence types are advertise	ed. It can be left	to the ONU to decide.
ACCEPT	г.				SuggestedRemed				
C/ 144	SC 144.3.6.6	P 206	L 40	# 43			sentences of the paragraph irrent registration of ONUs wi		
Hajduczenia	Marek	Charter Com	munications				ing of DiscoveryInfo flags by		
Comment Ty		Comment Status A		can-vs-may			her specified in 144.3.9. The f ONUs with different coexist		
		ded per Style Guide			and 15 to 1.	For ONUs	that support both coexistence		
SuggestedRe					attempt to reg	gister is imp	plementation dependent.		
In table 1	144-7, change a	I instance of "OLT cannot r receive" to "OLT is capable		is not capable of	Response ACCEPT IN I	PRINCIPLE	Response Status C		
Response		Response Status C	on receiving		Minor editoria	al tweaks			
ACCEPT	г.				client may all and 6 to 1. Tl dual-rate sys concurrent re and 15 to 1. I	ow a concu he processi tems is furt gistration o For ONUs t	sentences of the paragraph irrent registration of ONUs wi ng of DiscoveryInfo flags by her specified in 144.3.9. The f ONUs with different coexist hat support both coexistence olementation-dependent."	th different rates the ONU and the OLT MPMC clier ence options by s	by setting both bits 5 ONU behavior in ht may also allow a setting both bits 14

C/ 144 SC 144.3.6.6 Page 87 of 103 8/4/2019 8:18:19 AM

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C/ 144 SC 144.3.6.	7 P 208	L 42	# 222	C/ 144 SC 14	44.3.7 P2	210 <i>L</i> 34	# 7
Remein, Duane	Futurewei Tee	chnologies, Inc.		Hajduczenia, Marel	k Cha	rter Communications	
Comment Type TR	Comment Status A			Comment Type		; A	bucket
	eading "Generally, the SYNC_ LLID equal to DISC_PLID (see			Reference in re			
	s describe a required case for			SuggestedRemedy			
statement in this secti	on contradicts the "Generally"	phrasing.		Change to 142.	1.3 and make it live		
SuggestedRemedy				Response	Response Status	С	
Change the statement	t as follows: N MPCPDUs are transmitted i	in onvolonos with	the LLID equal to	ACCEPT.			
—	3.5) to allow unregistered ONU	•	•	C/ 144 SC 14	44.3.7 P:	210 <i>L</i> 34	# 223
pattern."	, -			Remein, Duane	Futu	rewei Technologies, Ind	
Response	Response Status C			,	E Comment Status	0	bucket
ACCEPT IN PRINCIP	LE.				of to 143.1.3 and in red font?		
Change the statement	t as follows:			SuggestedRemedy			
•	ery Process, the SYNC_PATT			make this a live			
obtain the synchroniza	ID equal to DISC_PLID (see 1 ation pattern."	44.3.5) to allow	unregistered ONUs to	Response	Response Status	С	
	·	1.50	# 040	ACCEPT.		•	
C/ 144 SC 144.3.6.		L 52	# 348	C/ 144 SC 14	4407		# 0.10
Laubach, Mark Comment Type E	Broadcom Comment Status A		bucket		-	210 <i>L</i> 34	# 349
	s to be a proper cross reference	2	DUCKEI	Laubach, Mark		idcom	buokot
5					E Comment Status into a proper cross referenc		bucket
SuggestedRemedy Make it so.							AL.
Response	Response Status C			SuggestedRemedy Make it so.			
ACCEPT.	Response Status				Deserve Oterte		
				Response ACCEPT.	Response Status	C	
C/ 144 SC 144.3.7	P 210	L 34	# 299	ACCEPT.			
Wienckowski, Natalie	General Moto	ors					
Comment Type E	Comment Status A		bucket				
There is a reference to hyperlink.	o a place in this document tha	t is red text and	does not have a				
SuggestedRemedy	/						
Change 141.1.3 to a 0	Cross-Reference.						
Response	Response Status C						
ACCEPT IN PRINCIP	LE.						
See comment #223							
TVDE: TR/technical requir	ed ER/editorial required GR/	apparal required	T/technical E/aditorial C/	ronoral		C/ 144	Page 88 of 103

SORT ORDER: Clause, Subclause, page, line

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C/ 144 SC 144.3.	7 P210	L 34	# 274	Cl 144 SC 144.3.7 P210 L5	0 # 225
Marris, Arthur	Cadence Des	ign Systems		Remein, Duane Futurewei Technologie	es, Inc.
Comment Type E	Comment Status A		bucket	Comment Type E Comment Status A	
Fix cross reference	(see 143.1.3)			This is the only instance of the term off-line. It is easier on th	
SuggestedRemedy				our use of terms. Unregistered is used at least 22 times, new	wly connected is use 3x.
Fix cross reference	(see 143.1.3)			SuggestedRemedy	
Response	Response Status C			Replace with "Off-line" and "newly connected" with "unregiste 26 just strike "newly connected or".	ered". Note that on pg 210 lin
ACCEPT IN PRINC	IPLE.			Response Response Status C	
Coo commont #000				ACCEPT IN PRINCIPLE.	
See comment #223					
C/ 144 SC 144.3.	7 P210	L 38	# 224	Change "off-line" to "unregistered".	
Remein, Duane	Futurewei Tec	chnologies, Inc.		C/ 144 SC 144.3.7 P211 L1	# 303
Comment Type T	Comment Status A			Kramer, Glen Broadcom	
	that the Discovery process is ab	orted only if a S	YNC_PATTERN is	Comment Type T Comment Status A	
receive for the DISC				"Each ONU waits a random amount of time before transmitting	ng the REGISTER_REQ
SuggestedRemedy				MPCPDU that is shorter than the length of the discovery wind	dow."
Change: "If a SYNC PATTER	RN MPCPDU is received" to			A very confusing sentence. What is shorter then the discove	rv window. the
	RN MPCPDU directed to the DIS	SC_PLID is recei	ved"	REGISTER_REQ MPCPDU or the random amount of time?	· j · · · · 2 · · · , · · · ·
Response	Response Status C			SuggestedRemedy	
ACCEPT IN PRINC	IPLE.			Split this into two sentences:	
Changes per comm	ont			"Each ONU waits a random amount of time before transmittin MPCPDU. The wait time together with the REGISTER_REQ	
Changes per comm	Silt.			(including optical overhead, burst synchronization sequence,	
Also implement cha		100401071		exceed the length of the discovery window."	
http://www.ieee802.	org/3/ca/public/meeting_archive/	/2019/07/kramer	_3ca_7_0719.pdf	Response Response Status C	
2/ 144 SC 144.3.	7 P210	L 46	# 8	ACCEPT IN PRINCIPLE.	
5C 144.3.	Charter Comn	nunications		Split this into two sentences:	
			h	"Each ONU waits a random amount of time before transmitting	
Hajduczenia, Marek	Comment Status A		bucket		
Hajduczenia, Marek	Comment Status A		DUCKet	MPCPDU. The wait time together with the REGISTER_REQ	
Hajduczenia, Marek Comment Type E Compound adjective	Comment Status A		DUCKET	MPCPDU. The wait time together with the REGISTER_REQ (including optical overhead, burst synchronization sequence, exceed the length of the discovery window."	
Hajduczenia, Marek Comment Type E	Comment Status A e "16 bit wide"		DUCKet	(including optical overhead, burst synchronization sequence,	
Hajduczenia, Marek Comment Type E Compound adjective SuggestedRemedy	Comment Status A e "16 bit wide"		DUCKet	(including optical overhead, burst synchronization sequence,	

C/ 144 SC 144.3.7

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C/ 144 SC	144.3.7	P 211	L 3	# 9	C/ 144	SC	144.3.7	P 211	L 9	# 226
Hajduczenia, Ma	irek	Charter Comm	nunications		Remein, I	Duane		Futurewei Te	chnologies, Inc.	
Comment Type	Е	Comment Status R		can-vs-may	Comment	Туре	TR	Comment Status A		
Can versus r	nay							y we expect the ONU to lie to		
SuggestedReme	dy							a compliant ONU is not profission channel, it is expected		
Change "RE	GISTER_RE	EQ MPCPDUs can be receiv ved by the OLT"	ed by the OLT"	to "REGISTER_REQ	upstre	eam an	d downstre	eam channel is indicated in the NU should only attempt to re	ne RegisterRequ	iestInfo field."
Response		Response Status C						s truthfully.		a ta baain with "Includ.
REJECT.								nformation in the RegisterRe Q MPCPDU is the ONU's MA		
"Can" (i e "i	s ahle" or "is	s capable") is correct and is i	intended "Mav"	(i.e. "is allowed" or "is	would	make	a better pa	ara break than this misguided	I note.	
		lly wrong here.	interface. May		Suggestee	dReme	dy			
C/ 144 SC	144.3.7	P211	L 3	# 44				ning at line 3 "Included in the nd" and combine with the		
Hajduczenia, Ma	irek	Charter Comm	nunications						p	
Comment Type	ER	Comment Status A		can-vs-may	Chang "Note		en though	a compliant ONU is not prof	hibited from supr	orting more than one
"can" used a	nd not inten	ded per Style Guide			data r	ate in a	any transm	ission channel, it is expected	I that a single su	pported data rate for
SuggestedReme	dy							eam channel is indicated in the a compliant ONU is not prob		
Change "vali MPCPDUs n		R_REQ MPCPDUs can be r ved"	eceived" to "val	id REGISTER_REQ	data r	ate in a	any transm	ission channel, it is expected ated in the RegisterRequest	I that an ONU or	nly attempt to register
Response		Response Status C			Response)		Response Status C		
ACCEPT.					ACCE	EPT IN	PRINCIPL	E.		
					data r upstre to "Note data r	that ev ate in a eam and that ev ate in a	any transm d downstre ven though any transm	a compliant ONU is not prof ission channel, it is expected am channel is indicated in the a compliant ONU may be ca ission channel, it is expected rated in the RegisterRequest	I that a single su ne RegisterRequ apable of suppor I that an ONU or	pported data rate for lestInfo field." ting more than one nly attempts to register
					Additi	onally	in the sen	tence "Additionally a registe	ring ONU notifie	s the OLT of its

Additionally, in the sentence "Additionally, a registering ONU notifies the OLT of its transmission capabilities in the upstream and downstream channels by setting appropriately the flags in the RegisterRequestInfo field, as specified in 144.3.6.3.", replace "in the upstream and downstream channels" with "in the current upstream channel"

C/ 144 SC 144.3.7

Approved Responses	IEEE F	802.3ca D2.0	25/50G-EPON Task F	Force Initial Working Gro	oup ballot comments		
C/ 144 SC 144.3.7	P 211	L13	# 10	C/ 144 SC 144.3.7	P211	L 33	# 324
Hajduczenia, Marek	Charter Com	munications		Lynskey, Eric	Broadcom		
Comment Type E Wrong field names	Comment Status A		bucket	Comment Type T Reregister and Dereg	Comment Status A ster are not valid flags.		
SuggestedRemedy				SuggestedRemedy			
Change "the Laser On Tir <i>LaserOffTime</i>			aserOnTime and	Change to, "REGIS the receiving ONU inter	TER_MPCPDU may indicate a preregistering." In the next set		
Response	Response Status C			MPCPDU contains the			
ACCEPT.				Response ACCEPT.	Response Status C		
C/ 144 SC 144.3.7	P 211	L 26	# 45				
Hajduczenia, Marek	Charter Com	munications		C/ 144 SC 144.3.7.		L14	# 351
Comment Type ER	Comment Status A		can-vs-may	Laubach, Mark	Broadcom		
"can" used and not intend	ed per Style Guide			Comment Type E	Comment Status A		bucket
SuggestedRemedy				The "u" in "us" is not a	a symbol.		
Change "the ONU is regis registered and normal me		e traffic can begi	n" to "the ONU is	SuggestedRemedy Should be the proper	mu symbol.		
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT.			
C/ 144 SC 144.3.7	P 211	L 32	# 46	C/ 144 SC 144.3.7.	3 P213	L 38	# 227
Hajduczenia, Marek	Charter Com	munications		Remein, Duane	Futurewei Teo	chnologies, Inc.	
Comment Type ER "can" used and not intend	Comment Status A ed per Style Guide		can-vs-may	Comment Type T The description of Cha	Comment Status A State does not sound like an ir	nteger.	
SuggestedRemedy				SuggestedRemedy			
Change "The ONU can th	en reregister" to "The ONI	J may then rereg	ister"	Change type to "8-bit	Boolean array"		
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT IN PRINCIP	LE.		
				Change to "Array of e	ight Boolean values"		

C/ 144 SC 144.3.7.3 Page 91 of 103 8/4/2019 8:18:19 AM

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C/ 144 SC 144.3.7.3 P213 L51 # 11	C/ 144 SC 144.3.7.3	P 214	L 7	# 323
lajduczenia, Marek Charter Communications	Lynskey, Eric	Broadcom		
Comment Type TR Comment Status A Undefined variables / constants? MissedReportCount, MISSED_REPORT_LIMIT	Comment Type T Comme Deregister is not a valid flag.	ent Status A		
SuggestedRemedy Need to be added and defined	SuggestedRemedy Change to NACK.			
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response ACCEPT.	se Status C		
MISSED_REPORT_LIMIT	C/ 144 SC 144.3.7.3	P 214	L9	# 228
Type: Integer Description: This constant represents the number of missed REPORT MPCPDUs that cause the OLT to deregister the given ONU. Value: 8	Remein, Duane <i>Comment Type</i> T Comme The description of GrantEndTime	ent Status A	echnologies, Inc. an integer.	
MissedReportCount Type: 8-bit unsigned integer	SuggestedRemedy Change type to "32-bit unsigned i	nteger"		
Description: This variable counts the number of missed REPORT MPCPDUs from a given PLID. A REPORT MPCPDU is considered missing if the OLT has allocated an envelope for the PLID and has not received any REPORT MPDCPDUs in the corresponding PLID envelope. The MissedReportCount counter is incremented by one per each PLID envelope	Response Response ACCEPT.	se Status C		
that did not contain any REPORT MPCPDUs, regardless of the length of that envelope. If a	C/ 144 SC 144.3.7.3	P 214	L 36	# 229
REPORT MPCPDU is received from a given PLID, the value of MissedReportCount is reset to zero.	Remein, Duane	Futurewei Te	chnologies, Inc.	
144 SC 144.3.7.3 P214 L4 # 317	Comment Type T Comme The description of MaxDelay does	ent Status A s sound like an int	eger.	
ynskey, Eric Broadcom	SuggestedRemedy		- 3 -	
omment Type T Comment Status A	Change type to "32-bit unsigned i	nteger"		
There is no way for the ONU to send a register ack once it has been registered. Figure 144-22 shows that the ONU can only send a register request once it has reached the REGISTERED state. Once the REGISTERED state in Figure 144-21 has been reached, only the other conditions (1, 2, 4) are expected.	Response Response ACCEPT.	se Status C		
uggestedRemedy	C/ 144 SC 144.3.7.3	P 214	L 37	# 47
Replace MsgRegisterAck with MsgRegisterReq in two places. Also replace Deregister with	Hajduczenia, Marek	Charter Com	munications	
	· · · //· · · · · · · · · · · · · · · ·	ent Status A		can-vs-may
ACCEPT.	"can" used and not intended per S	Style Guide		
	SuggestedRemedy Change "the maximum delay the apply to"	ONU can apply to	" to "the maximum	delay the ONU may
		se Status C		
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wi		C/ 14 n SC 14	14 14.3.7.3	Page 92 of 103 8/4/2019 8:18:19

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 144.3.7.3 SORT ORDER: Clause, Subclause, page, line

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C/ 144 SC 144.3.7	7.3 P214	L 44	# 391	C/ 144	SC 144	3.7.3	P 215	L 21	# 230
Dawe, Piers	Mellanox			Remein, D	Duane		Futurewei Teo	chnologies, Inc.	
Comment Type T	Comment Status A			Comment	Туре ТІ	ર	Comment Status R		
10.3125 Gb/s							ved disallows an ONU cap		
SuggestedRemedy 10.3125 GBd. Also	25.78125 Gb/s -> GBd			may b		sons that	at is also capable of both ' we haven't thought of tha s:		
Response ACCEPT.	Response Status C			2) add		cating th	very Window for single rate at the OLT may lie to the 0		capabilities to force
C/ 144 SC 144.3.7	7.3 P214	L 49	# 300	Suggested	dRemedy				
Wienckowski, Natalie	General Moto	rs			d prefer opt		4.3.9 also		
Comment Type E	Comment Status D			Response			Response Status C		
	g spaces in number that have 4 f the 2014 IEEE-SA Style Manu		o the right of the	REJE	CT.		, -		
SuggestedRemedy							c behavior, ONU is require	ed to register at	the highest rate
Change: 25.78125 To: 25.781 25				suppo	rted by both	the OL	Γ and this ONU.		
Proposed Response	Response Status Z			The O	LT doesn't	lie to the	ONU. It can choose what	capability to adv	vertize (see 144.3.9)
PROPOSED REJEC	,						pable ONUs to register at option 2 is employed. This		
This comment was V	VITHDRAWN by the commente	er.					ONUs in 802.3av.	s is the same m	ethod that is employed
C/ 144 SC 144.3.7		<i>L</i> 1	# 48	No cha	anges requ	red.			
Hajduczenia, Marek	Charter Comr	-	# 40	C/ 144	SC 144	3.7.3	P 215	L 45	# 231
Comment Type ER	Comment Status A	nunications		Remein, D	Duane		Futurewei Teo	chnologies, Inc.	
	ntended per Style Guide		can-vs-may	Comment	Туре Т		Comment Status A		
				The de	escription o	f RegSta	rt does sound like an integ	ger.	
SuggestedRemedy	e can take the following values"	to "this variable	takes the following	Suggested	dRemedy				
values"	F can take the following values		lakes the following	Chang	ge type to "3	82-bit uns	signed integer"		
Response	Response Status C			Response		ŀ	Response Status C		
ACCEPT.				ACCE	рт				

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 144.3.7.3

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C/ 144 SC 144.3.	7.3 P215	L 53	# 232	C/ 144 SC 144.3	.7.8 P218	L 36	# 234
Remein, Duane	Futurewei Te	chnologies, Inc.		Remein, Duane	Futurewei Te	echnologies, Inc.	
Comment Type T The description of S	<i>Comment Status</i> A pSeq does sound like an intege	r.		Comment Type E "Registered" should	Comment Status A I be in italics		bucke
SuggestedRemedy Change type to "32-	bit unsigned integer"			SuggestedRemedy per comment			
Response ACCEPT IN PRINC	Response Status C IPLE.			Response ACCEPT.	Response Status C		
Change type to "2-b	it unsigned integer"			Two instances			
C/ 144 SC 144.3.	7.4 P216	L12	# 352	C/ 144 SC 144.3	.7.8 P 219	L 9	# 235
Laubach, Mark	Broadcom			Remein, Duane	Futurewei Te	echnologies, Inc.	
endings. SuggestedRemedy	Comment Status A a) to f) list, one ends in a period, w to have consistent (or appropr Response Status C		bucket Ise consistent lines	SpSeq SuggestedRemedy	Comment Status A xit criteria from WAIT_FOR_SY ss than or equal to symbol Response Status C	NC "msgSyndPatt	ern.Index >>?<<
ACCEPT IN PRINC	-			ACCEPT.			
Remove "." at the e	nd of bullet items			Replace "?" with "!=	=" (not equal)		
C/ 144 SC 144.3.	7.5 P216	L 48	# 233	C/ 144 SC 144.3	.7.8 P219	L 9	# 12
Remein, Duane	Futurewei Te	chnologies, Inc.		Hajduczenia, Marek	Charter Corr	nmunications	
Comment Type ER No variable name M	Comment Status A sgRegsiter is used. Maybe sho	uld be MsgRegist	er?	Comment Type TR Wrong symbol in lir	Comment Status A		
SuggestedRemedy per comment				SuggestedRemedy Likely it is suppose	d to be "!="		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		

C/ 144 SC 144.3.7.8

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			· · · · · · · · · · · · · · · · · · ·			
144 SC 144.3.7.8 P 219	L 36	# 353	C/ 144 SC 144.3.8	P 220	L 8	# 237
ubach, Mark Broadcom	ו		Remein, Duane	Futurewei Te	chnologies, Inc.	
mment Type T Comment Status R			Comment Type T	Comment Status A		
In Figure 144-22, is there a blank line in the mid	dle of the steps in C	OMMIT_DISC_ENV or	It would be useful to t	he reader to refer back to Figu	ure 144-3 & 144-4	4.
is something technical missing?			SuggestedRemedy			
ggestedRemedy Verify if something missing, and if so fix it. If it is	s indeed a blank line	consider removing.		para add: "The following desc and functional blocks found in		
sponse Response Status C			Response	Response Status C		
REJECT.			ACCEPT.			
The empty line emphasizes the fact of filling two	separate envelopes	5.	Comment type chang	ed to "T"		
144 SC 144.3.7.8 P219	L 49	# 316	C/ 144 SC 144.3.8.	1 P 220	L 36	# 238
nskey, Eric Broadcom	า		Remein, Duane	Futurewei Te	chnologies, Inc.	
mment Type E Comment Status A In Figure 144-22, timestampDrift should be capir ggestedRemedy Change to TimestampDrift.	talized.	bucket	integer. SuggestedRemedy	Comment Status A CP_PROCESS_DLY and GA	ATE_TIMEOUT c	loes sound like an
sponse Response Status C			Change type to "32-bi	t unsigned integer"		
ACCEPT.			Response ACCEPT.	Response Status C		
144 SC 144.3.8 P 220	L 3	# 236	C/ 144 SC 144.3.8.	1 P 220	L 40	# 301
mein, Duane Futurewei	Technologies, Inc.		Wienckowski. Natalie	General Moto		# 301
mment Type E Comment Status A		bucket	,	Comment Status D	JIS	
see 1.4.278 should be a live link ggestedRemedy			Use a non-breaking s	pace in number that have 4 or IEEE-SA Style Manual, not a		ne left of the decima
per comment			SuggestedRemedy	•		
sponse Response Status C ACCEPT.			Change: 6,400	4 digit numbers don't have to mbers.	have the space u	inless they are in a
			Proposed Response	Response Status Z		
			PROPOSED REJECT	ī.		
			This comment was W	ITHDRAWN by the commenter	er.	

C/ 144 SC 144.3.8.1

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C/ 144 SC 144.	3.8.1	P 220	L 47	# 302	C/ 144	SC 144.3.8.3	6	P 221	L 4	# 240
Wienckowski, Natalie		General Moto	ors		Remein, D	uane	F	- uturewei Tee	chnologies, Inc.	
Comment Type E	Comme	nt Status D			Comment	Туре Т	Comment Sta	atus A	-	
Use a non-breakir per 13.3.2 of the 2				he left of the decimal		riable is stated a presents"	as a Boolean arr	ay and it is c	onfusing to refer	to it as "A Boolean
SuggestedRemedy					Suggested	Remedy				
Change: 19,531,2 To: 19 531 250	50					lean that repres	ents" to 3oolean array rep	oroconto"		
Proposed Response	Respons	e Status Z								
PROPOSED REJ	ECT.				Response	PT IN PRINCIPL	Response Sta	atus C		
This comment was	s WITHDRAWN	by the commente	er.		ACCE					
					Use th			a da a da a com		- han and a state
C/ 144 SC 144.	3.8.1	P 220	L 47	# 239		element of this a ents whether"	array is associate	ed with the re	spective MCRS	channel and
Remein, Duane		Futurewei Te	chnologies, Inc.		Strike	he last sentence	۵			
		nt Ctatura			Othice		0			
Comment Type TR	comme	nt Status A								
Assuming GATE_	TIMEOUT really		mplied then 50 i	ms is not the default	C/ 144	SC 144.3.8.3		P 221	L 22	# 241
Assuming GATE_ value, it is the only	TIMEOUT really		mplied then 50 i	ms is not the default	Remein, D	uane	F	Futurewei Te	L 22 chnologies, Inc.	# 241
Assuming GATE_ value, it is the only SuggestedRemedy	TIMEOUT really allowed value.		mplied then 50 i	ms is not the default	Remein, D <i>Comment</i>	uane Type T	F Comment Sta	⁻ uturewei Teo <i>atu</i> s A	chnologies, Inc.	
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D <i>Comment</i> In all o	uane <i>Type</i> T ther variable def	F Comment Sta	⁻ uturewei Teo <i>atu</i> s A	chnologies, Inc.	# 241
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va	TIMEOUT really y allowed value. alue"		mplied then 50 i	ms is not the default	Remein, D Comment ⁻ In all o Suggested Chang "LLID: StartTi "Lengti	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time" -	F <i>Comment Sta</i> initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22:	Futurewei Ter atus A the size of th e 32-bit start	chnologies, Inc. e variable or field	
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment ⁻ In all o Suggested Chang "LLID: StartTi "Lengti	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time" -> e proper italics f	F <i>Comment Sta</i> initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22:	Futurewei Ter atus A the size of th e 32-bit start t-bit length"	chnologies, Inc. e variable or field	
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time" -> e proper italics f	F Comment Stat initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- format. Response Stat	Futurewei Ter atus A the size of th e 32-bit start t-bit length"	chnologies, Inc. e variable or field	
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response ACCEI	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time"	F Comment Sta initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- format. Response Sta	Futurewei Ter atus A the size of th e 32-bit start t-bit length" atus C	chnologies, Inc. e variable or field time"	l, we should here also.
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengt observ Response ACCEI	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time" -> e proper italics f PT. <i>SC</i> 144.3.8.6 len	F Comment Sta initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- format. Response Sta	Futurewei Ter atus A the size of th e 32-bit start bit length" atus C P222 Broadcom	chnologies, Inc. e variable or field time"	l, we should here also.
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response ACCEI Cl 144 Kramer, G Comment	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time"	F Comment Sta finitions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22 format. Response Sta	Futurewei Ter atus A the size of th e 32-bit start bit length" atus C P222 Broadcom atus A	chnologies, Inc. e variable or field time"	l, we should here also. # [<u>305</u>
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response ACCEI Cl 144 Kramer, G Comment	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time"	F Comment Stat finitions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- format. Response Stat G E Comment Stat	Futurewei Ter atus A the size of th e 32-bit start bit length" atus C P222 Broadcom atus A	chnologies, Inc. e variable or field time"	l, we should here also. # [<u>305</u>
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response ACCEI Cl 144 Kramer, G Comment "An an Suggested	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time"	F Comment Stat finitions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- format. Response Stat G E Comment Stat	Futurewei Ter atus A the size of th e 32-bit start -bit length" atus C P222 Broadcom atus A of"	chnologies, Inc. e variable or field time"	l, we should here also. # [<u>305</u>
Assuming GATE_ value, it is the only SuggestedRemedy Strike ", default va Response	TIMEOUT really y allowed value. alue"	r is a constant as i	mplied then 50 i	ms is not the default	Remein, D Comment In all o Suggested Chang "LLID: StartTi "Lengti observ Response ACCEI Cl 144 Kramer, G Comment "An an Suggested	uane <i>Type</i> T ther variable def <i>Remedy</i> e ass follows: LLID" -> "LLID: me: Start time"	F Comment Sta initions we give t the 16-bit LLID" -> "StartTime: the > "Length: the 22- iormat. Response Sta G E Comment Sta nts" is missing "c	Futurewei Ter atus A the size of th e 32-bit start bit length" atus C P222 Broadcom atus A of"	chnologies, Inc. e variable or field time"	l, we should here also. # [<u>305</u>

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								-	-			
C/ 144	SC 144.3	8.7	P 222	L 33	# 242	C/ 144	SC	144.3.8.8		[⊃] 223	L 40	# 243
Remein,	Duane		Futurewei Te	chnologies, Inc.		Remein, I	Duane		Fu	turewei Te	echnologies, Inc.	
Commen	t Type TR	Col	mment Status A			Comment	Туре	TR	Comment Stat	us A		
Giver state		iirement m	haps to this clause the	re should ideally b	be only one shall	•		•	tor is not include	d in our lis	at of conventions.	
	edRemedy					Suggeste "." Use		ły				
	OLT shall imp		e GATE Generation sta ate diagram shall be im		own in Figure 144–23. ach registered ONU	Response ACCE			Response State	ıs C		
"The	ÓLT shall imp		eparate instance for e		NU (PLID) of the	C/ 144	SC	144.3.8.11		[⊃] 226	L 8	# 13
	E Generation s nange to PICS		am as shown in Figure	144–23."		Hajducze	nia, Mar	ek	Ch	arter Com	munications	
Response	0		nonno Statua			Comment	Туре	TR	Comment Stat	us A		
•	₽ EPT IN PRINC		ponse Status C			Unde	fined pri	mitive: MP	RS_CTRL?			
Chan						Suggester Is MC		<i>ly</i> RL intende	d?			
	oarate instance		e GATE Generation sta ate diagram shall be im		own in Figure 144–23. ach registered ONU	Response ACCE			Response Stati	ıs C		
to						C/ 144	SC	144.3.9.1		₽ 227	L 6	# 14
to						Hajducze	nia, Mar	ek	Ch	arter Com	nmunications	
			instance of the GATE stered ONU (PLID)."	Generation state	diagram, as shown in	Comment Table		E has very in	Comment Stat consistent line w			bu
Upda	te PICS					Suggeste	dRemec	1v				
C/ 144	SC 144.3	8.8	P 223	L 40	# 244			-	02.3 drafts			
Remein,	-			chnologies, Inc.		Response	9		Response Stati	ıs C		
Commen		Co	mment Status A	chilologics, inc.		ACCE	EPT.		,	-		
	21		any field defined as Ms	aGate ChMap								
				goulo.onmap								
	edRemedy	Channell	Map (2x in this SD) as	used elsewhere a	and defined in							
144.3												

Response

ACCEPT.

Response Status C

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

C/ 144 SC 144.3.9.1 Page 97 of 103 8/4/2019 8:18:19 AM

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C/ 144	SC 144.3.9.1	P 227	L10	# 245	C/ 144	SC 144.4.2	P 229	L 28	# 246		
Remein, Du	uane	Futurewei Teo	hnologies, Inc.		Remein, Du	ane	Futurewei Te	chnologies, Inc.			
Comment T	Туре Е	Comment Status A		bucket	Comment T	vpe T	Comment Status A				
Allowin 15G-EF ON	ng P and 50G-EP ON	to cross the line is confus	ing.		& 29)? be a fev quote.	This seems to cases where	CCP Client" not the "MPMC be a common error througho MPCP Client is correct. Belo	ut 144.4 however	there also appear to		
uggested	Remedy					ocal MPMC CI DLT MPMC Cli					
ensure	"EPON" appear	s on a single line				ocal MPMC CI					
Response ACCEPT.	Response Status C			 230/17 MPMC Client initiates, 230/34 MPMC Client initiates, 231/3 MPMC Client initiates, 231/24 MPMC Client initiates, 231/37 MPMC Client may monitor, 231/39 MPMC Client may (this instance may be OK check carefully), 231/41 notify the MPMC Client, 231/44 the MPMC Client at the ONU. 238/25 MPMC Client and is processed 							
					SuggestedRemedy						
					is sugge	d consider just ested in this co	c changing the four figures as mment. Note that CCP Clier el layering diagrams such as	it does not appea			
					Response		Response Status C				
					ACCEP	T IN PRINCIPL	.E.				
					it is a cl client of never "N Client" a things: 1) Repla 2) In Fig	ent (we also u Multi-Point MA IPCP Client" o Ind "CCP Clier Ince 36 occuren ures 144-3, -4	cussion. Generally, a client in se MAC Client and PMA Clie C Control sublayer. Everywh r "CCP Client". However, a fe t". If we decide to reconcile ces of "MPMC Client" with ei , -10, -11, -28, -29, replace "N	ent). So, "MPMC (nere in text we use ew pictures label to these differences ther "MPCP Client MPCP Client" with	Client" is correct for a e "MPMC Client" and the boxes "MPCP we can do one of two nt " or "CCP Client"		
							ent" with "MPMC Client (CCF				

C/ 144 SC 144.4.2

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

C/ 144 SC 144.4	.2 P 229	L 44	# 247	C/ 144	SC 144.4.2.1	P 230	L13	# 319	
Remein, Duane	Futurewei Teo	chnologies, Inc.		Lynskey, E	Fric	Broadcom			
Comment Type T	Comment Status D			Comment	Туре Т	Comment Status A			
reverted upon ONU	the statement "Any non-persister reset and re-registration."	nt changes are		scope	of this standard.	t the definition and behavior of There is quite a bit of text in o describe the behavior of the	144.4.2.1, 144.4	4.2.2, 144.4.2.3, and	
SuggestedRemedy Add to the end of th	ne sentence "(i.e., the channel rev	verts to it's defau	It state)"	text that	at says when the	OLT starts and stops grantined and not necessary.	ng the ONU. A lo	ot of the text in these	
Proposed Response	Response Status Z			Suggested	Remedy				
REJECT.						4.2.1 starting with page 230 I			
This comment was	WITHDRAWN by the commente	r.				line 32. Remove all text in 14 4.2.4 starting with page 231 I		with page 231 line 1.	
C/ 144 SC 144.4.	.2 P 230	L1	# 248	Response		Response Status C			
Remein, Duane	Futurewei Teo	chnologies, Inc.		ACCE	PT IN PRINCIPL	E.			
Comment Type E Does one have to c	Comment Status A hange both US & DS? Seems a	bit onerous to m	bucket e.	Remove "shall" statemens from 144.4.2.3 and 144.4.2.1, and eliminate associated PICS.					
SuggestedRemedy				This te	ext is intended to	be informative only. There ar	e no requiremen	nts made.	
Change:				C/ 144	SC 144.4.2.1	P 230	L19	# 318	
"enabling / disabling	g one of downstream and upstrea g one of the downstream or upstr			Lynskey, E		Broadcom			
Response ACCEPT.	Response Status C				ner and CCP_R	Comment Status A ETRY_LIMIT not defined.			
	.2.1 <i>P</i> 230	L 4	# 249	Suggested Remov		n four places: 144.4.2.1, 144.	.4.2.2. 144.4.2.3	. and 144.4.2.4.	
Remein, Duane		chnologies, Inc.		Response		Response Status C	···, · · · · · · · · · · · · ·	,	
Comment Type TR	Comment Status R	g,		ACCE	РТ				
What prevents the	OLT from persistently disabling the by breaking the ONU?	ne only DS chanr	nel an ONU has	C/ 144	SC 144.4.2.5	P 231	L 38	# 250	
SuggestedRemedy	,			Remein, D	uane	Futurewei Teo	chnologies, Inc.		
Add at the end of th	ne para "The OLT shall not disabl ining enabled channel at that ON		channel at the ONU if		nar typo	Comment Status A		buck	
Response	Response Status U			Suggested	-				
REJECT.					e: ng the ONU notif ng the ONU to no				
	uirement to the MPMC Client (Co	<i>,</i> .	•	Response		Response Status C			
make a mistake. So	I, we should not limit device capa ometimes it may be necessary to serve the rest of EPON. NMS us	disable all chann	nels and brick the	ACCE	PT.				
guards in place to p	prevent accidental misconfiguration	on.							
TYPE: TR/technical reg	uired ER/editorial required GR/g	general required	T/technical E/editorial G/g	general		C/ 14	4	Page 99 of 10	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 144 SC 144.4.2.5

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C/ 144	SC 144.4.2.5	P 231	L 41	# 320	C/ 144 SC 144.4.	3.1	P 233	L 9	# 252	
Lynskey, Eri	с	Broadcom			Remein, Duane		Futurewei Teo	chnologies, Inc.		
Comment Ty	vpe T	Comment Status R			Comment Type TR Comment Status A					
Behavio	r of MPMC Clie	ent.			Opcode in Figures 1	44-31 & 32 do not	agree with the	e text.		
SuggestedR	emedy				SuggestedRemedy					
Client at	the OLT about	4.2.5 beginning with line 41. t a local channel state change C_RESPONSE CCPDU to the	e, the MPMC Clie	ent at the ONU may	Align figures and tex Opcode 21 (text is o	correct).		pcode 20 and C	C_RESPONSE	
		stream channels.	, 3			Response Si	tatus C			
Response		Response Status C			ACCEPT IN PRINC	IPLE.				
REJECT					Opcodes are correc CC_REQUEST and					
This text	is intended to	be informative only. There are	e no requiremen	its made.	C/ 144 SC 144.4.	3.1	P 233	L 21	# 321	
C/ 144	SC 144.4.3	P 232	L 7	# 49	Lynskey, Eric		Broadcom			
Hajduczenia	, Marek	Charter Comn	nunications		Comment Type T	Comment S	tatus A			
Comment Ty "can" us	•	Comment Status A ended per Style Guide		can-vs-may	If the intent is to reserve space for support of up to 16 channels in the future, the space in the frame should be reserved for both downstream and upstream status.					
SuggestedR	emedy				SuggestedRemedy					
	•	originating at the OLT, this ca	an be the" to "Fo	or CCPDUs originating	<i>SuggestedRemedy</i> In Figure 144-31, ac	ld 14 octets of Res	served followin	ng StatusUC1.	Adjust the pad.	
	•		an be the" to "Fo	or CCPDUs originating	00 ,	ld 14 octets of Res Response Si		ng StatusUC1.	Adjust the pad.	
Change at the Ol Response	"For CCPDUs LT, this may be		an be the" to "Fo	or CCPDUs originating	In Figure 144-31, ac			ng StatusUC1.	Adjust the pad.	
Change at the O	"For CCPDUs LT, this may be	e the"	an be the" to "Fo	or CCPDUs originating	In Figure 144-31, ac Response ACCEPT.	Response Si	tatus C			
Change at the Ol Response ACCEPT	"For CCPDUs LT, this may be	e the"	an be the" to "Fo	or CCPDUs originating	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4.	Response S	tatus C P 234	L 14	Adjust the pad. # 253	
Change at the Ol Response ACCEPT Page wa	"For CCPDUs LT, this may be T. as wrong (233)	e the" Response Status C and fixed (232)			In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane	Response Si	<i>P</i> 234 Futurewei Teo			
Change at the Ol Response ACCEPT Page wa	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3	e the" <i>Response Status</i> C and fixed (232) <i>P</i> 232	L16	or CCPDUs originating	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR	Response Si 3.1 Comment S	P234 Futurewei Teo itatus R	L 14 chnologies, Inc.	# <mark>253</mark>	
Change at the Ol Response ACCEP Page wa C/ 144 Remein, Dua	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane	e the" <i>Response Status</i> C and fixed (232) <i>P</i> 232 Futurewei Tec			In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane	Response Si 3.1 Comment S previous persisten	P234 Futurewei Teo tatus R t state" for one	L 14 chnologies, Inc. e channel comb	# 2 <u>53</u>	
Change at the Ol Response ACCEPT Page wa Cl 144 Remein, Dua Comment Ty	"For CCPDUs LT, this may be r. us wrong (233) SC 144.4.3 ane pe T	e the" <i>Response Status</i> C and fixed (232) <i>P</i> 232 Futurewei Tec <i>Comment Status</i> A	L16 chnologies, Inc.	# 251	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR What prevents the "	Response Si 3.1 Comment S previous persisten another change fr	P234 Futurewei Teo tatus R t state" for one	L 14 chnologies, Inc. e channel comb	# 2 <u>53</u>	
Change at the Ol Response ACCEPT Page wa Cl 144 Remein, Dua Comment Ty Figure 1	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane <i>pe</i> T 44-30 does not	e the" <i>Response Status</i> C and fixed (232) <i>P</i> 232 Futurewei Tec	L16 chnologies, Inc.	# 251	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR What prevents the " persistent state" for	Response Si 3.1 Comment S previous persisten another change fr	P234 Futurewei Teo tatus R t state" for one	L 14 chnologies, Inc. e channel comb	# 2 <u>53</u>	
Change at the Ol Response ACCEP Page wa C/ 144 Remein, Dua Comment Ty Figure 1 SuggestedR	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane ype T 44-30 does not emedy	e the" <i>Response Status</i> C and fixed (232) <i>P</i> 232 Futurewei Tec <i>Comment Status</i> A	L 16 chnologies, Inc. indicated by this	# 251	In Figure 144-31, ac Response ACCEPT. C/ 144 SC 144.4. Remein, Duane Comment Type TR What prevents the " persistent state" for thereby appear to be SuggestedRemedy Add footnote to Pers 1 The ONU shall ref	Response Si 3.1 Comment S previous persisten another change fre broken? sistenceFlag = 1 fuse any instruction	P234 Futurewei Teo tatus R t state" for one om creating ar	L 14 chnologies, Inc. e channel comb n ONU with all c	# 253	
Change at the Ol Response ACCEPT Page wa Cl 144 Remein, Dua Comment Ty Figure 1 SuggestedR In Figure	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane ype T 44-30 does not emedy	e the" Response Status C and fixed (232) P232 Futurewei Tec Comment Status A t include an "OperandList" as	L 16 chnologies, Inc. indicated by this	# 251	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR What prevents the " persistent state" for thereby appear to be SuggestedRemedy Add footnote to Pers 1 The ONU shall ref channels in a given	Response Si 3.1 Comment S previous persistem another change fre broken? sistenceFlag = 1 fuse any instruction direction.	<i>P</i> 234 Futurewei Teo <i>tatus</i> R t state" for one om creating ar	L 14 chnologies, Inc. e channel comb n ONU with all c	# 253	
Change at the Ol Response ACCEPT Page wa Cl 144 Remein, Dua Comment Ty Figure 1 SuggestedR In Figure Response	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane ype T 44-30 does not emedy	e the" Response Status C and fixed (232) P232 Futurewei Tec Comment Status A t include an "OperandList" as ge "Data/Reserved" to "Operan Response Status C	L 16 chnologies, Inc. indicated by this	# 251	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR What prevents the " persistent state" for thereby appear to be SuggestedRemedy Add footnote to Pers 1 The ONU shall ref channels in a given Response	Response Si 3.1 Comment S previous persisten another change fre broken? sistenceFlag = 1 fuse any instruction	<i>P</i> 234 Futurewei Teo <i>tatus</i> R t state" for one om creating ar	L 14 chnologies, Inc. e channel comb n ONU with all c	# 253	
Change at the Ol Response ACCEPT Page wa C/ 144 Remein, Dua Comment Ty Figure 1: SuggestedR In Figure Response ACCEPT	"For CCPDUs LT, this may be T. as wrong (233) SC 144.4.3 ane <i>pe</i> T 44-30 does not emedy a 144-30 chang	e the" Response Status C and fixed (232) P232 Futurewei Tec Comment Status A t include an "OperandList" as ge "Data/Reserved" to "Operan Response Status C .E.	L 16 chnologies, Inc. indicated by this	# 251	In Figure 144-31, ac Response ACCEPT. Cl 144 SC 144.4. Remein, Duane Comment Type TR What prevents the " persistent state" for thereby appear to be SuggestedRemedy Add footnote to Pers 1 The ONU shall ref channels in a given	Response Si 3.1 Comment S previous persistem another change fre broken? sistenceFlag = 1 fuse any instruction direction.	<i>P</i> 234 Futurewei Teo <i>tatus</i> R t state" for one om creating ar	L 14 chnologies, Inc. e channel comb n ONU with all c	# 253	

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

C/ 144 SC 144.4.3.1 Page 100 of 103 8/4/2019 8:18:19 AM

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C/ 144 SC 144.4.3	.2 P 234	L 42	# 322	C/ 144	SC 144.5.4.4	4 P 242	L 53	# 354
Lynskey, Eric	Broadcom			Laubach, M	lark	Broadcom		
Comment Type T	Comment Status A			Comment T	ype E	Comment Status A		buck
	rve space for support of up to 1			Tables	in the PICS ne	ed bottom ruling enabled.		
	eserved for both downstream a	and upstream ac	tions.	Suggested	Remedy			
SuggestedRemedy				Make it	SO.			
In Figure 144-32, add	14 octets of Reserved followir	ng ActionUC1. A	djust the pad.	Response		Response Status C		
Response ACCEPT.	Response Status C			ACCEF				
C/ 144 SC 144.4.4	.1 P236	L11	# 15	C/ 149	SC 149.1.3	P 71	L 27	# 476
	Charter Comr		# [I]	Brandt, Dav	vid	Rockwell Aut	omation	
Hajduczenia, Marek Comment Type ER	Comment Status A	nunications		Comment 7		Comment Status D		wrong-ball
51	e in CH_STATE_ABSENT, CH			PCS la	er label is inco	onsistent with Figure 44-1 and	l Figure 125-1.	
CH_STATE_ENABLE				Suggested	Remedy			
SuggestedRemedy					: "RS-FEC PC			
Change Table 144–1	1. to Table 144–12.				B/65B RS-FEC			
Response	Response Status C			Proposed F		Response Status Z		
ACCEPT.				PROPO	SED REJECT			
			" =-	This co	mment was W	ITHDRAWN by the commenter	er.	
C/ 144 SC 144.4.4.		L 23	# 50					
Hajduczenia, Marek	Charter Comr	nunications		l do not	think this draft	t includes clause 149. Wrong	project?	
Comment Type ER	Comment Status A		can-vs-may	C/ 149	SC 149.1.3.	1 P 72	L38	# 479
	tended per Style Guide			Brandt, Dav		Rockwell Aut		
SuggestedRemedy				Comment T		Comment Status D	omation	wrong-ball
	ent) can be accessed" to "(arra	y element) is ac	cessed		dashes.			wrong ban
Response	Response Status C			Suggested				
ACCEPT.				•••	: "3260 bit blo	~k"		
					50-bit block", ir			
				Proposed F	esponse	Response Status Z		
				PROPO	SED REJECT	•		
				This co	mment was W	ITHDRAWN by the commenter	er.	
				l do not	think this draft	t includes clause 149. Wrong	project?	

C/ 149 SC 149.1.3.1 Page 101 of 103 8/4/2019 8:18:20 AM

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C/ 149 SC 149.3.2.	2.4	P 89	L 24	# 468	C/ 149	SC 149.3.9.	2	P128	L1	# 478
Brandt, David	2.4	Rockwell Aut		# 400	Brandt, Da			F 120 Rockwell Aut	-	# 478
	0		omation		,				omation	
Comment Type E	Comment			wrong-ballot	Comment	51	Comment St			wrong-ballo
Figure 149-6 lacks arr	ow ends on T	XD<32> and TX	(D<63>.							that were edited in
SuggestedRemedy							-T1? Why do the	ey need to ap	pear twice?	
Add arrow ends on TX	Suggested	Remedy								
Proposed Response	Status Z			Refer to the modified Clause 97 Table 97-6 for the BASE-T1 mappings and then c additional mappings for MultiGBASE-T1.						
PROPOSED REJECT.					Proposed	Response	Response Sta	atus Z		
This comment was W	PROP	OSED REJECT								
I do not think this draf	includes clau	se 149. Wrong	project?		This c	omment was W	THDRAWN by th	ne commente	er.	
C/ 149 SC 149.3.9		P 120	L 20	# 477	l do no	ot think this draft	includes clause	149. Wrong	project?	
Brandt, David		Rockwell Aut	omation		C/ 149	SC 149.5.3.	1	P160	L11	# 469
Comment Type E	Comment	Status D		wrong-ballot	Brandt. Da	avid		Rockwell Aut	omation	
Missing space					Comment		Comment St		omation	wrong-ballo
SuggestedRemedy									If Lassume this	is actual MAC data with
Change: "OAM10-bit" To: "OAM 10-bit"					addres		get FER = 1e-12			note that 149.5.3.2 does
Proposed Response	Response	Status Z			Suggested	Remedy				
PROPOSED REJECT	,				Please	e check the mat	n or describe bet	ter.		
This comment was W	ITHDRAWN b	y the commente	er.		Proposed PROP	Response OSED REJECT	Response Sta	atus Z		
I do not think this draf	t includes clau	se 149. Wrong	project?		This c	omment was W	THDRAWN by t	ne commente	er.	
					l do no	ot think this draft	includes clause	149. Wrong	project?	

C/ 149 SC 149.5.3.1

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C/ 149 SC 149.5.3.2	P160	L 20	# 470	C/ Content	SC Content	is P20	L 46	# 428	
Brandt, David	Rockwell Auto	mation		Dawe, Piers		Mellanox			
Comment Type T	Comment Status D		wrong-ballot	Comment Typ	e E	Comment Status A		bucke	
crossing XGMII also be	istenmt. 149.5.3.1 has "frame e counted as 149.5.3.2 "frame ther correction after RS-FEC.	loss ratio" whe	in they get to the MAC?	sequence	DPC FEC E	e) Annex 142A (normative) 142 Incoder Test Vectors	A.1Example of	initial control seed	
SuggestedRemedy				Sort out f	ormatting / d	ocument structure			
used.	ame terminology, packet size	s and measure	ment points can be	Response ACCEPT		Response Status C			
Proposed Response	Response Status Z								
PROPOSED REJECT.				C/ TOC	SC TOC	P 20	L 46	# 271	
This comment was WI	THDRAWN by the commenter			Kramer, Glen		Broadcom		-	
I do not think this draft	includes clause 149. Wrong p	roject?		Comment Type E Comment Status A bucke TOC entries 31A, 142A and 142A.1 all got concatenated into a single entry					
C/ 149 SC 149.9.2.2		L 41	# 471	SuggestedRe	•				
Brandt, David	Rockwell Auto	mation		Fix TOC f	ormat				
Comment Type T	Comment Status D		wrong-ballot	Response		Response Status C			
This paragraph has 2 s	halls that apply to entire produ	ucts. The seem	s out of our scope.	ACCEPT					
SuggestedRemedy									
Change1st: "shall", To:	e replaced with text in the spiri "is expected be able to" tested", To: "is expected to all								
Proposed Response	Response Status Z								
PROPOSED REJECT.									
This comment was WI	THDRAWN by the commenter								

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