IEEE P802.3cs D2.3 SuperPON Task Force 3rd Working Group recirculation ballot comments

C/ 1	SC 1.4	P 22	L 16	# 251		C/ 164	SC 164.2.1	P 43	L13	# 252			
Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei							Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei						
Comme	nt Type ER	Comment Status D	-			Comment	Type ER	Comment Status A	-				
The via	term "DWDM chan the adobe search to d then the undate to	nel" has been updated to ad ool did not reveal its use anyw the definition should be delight	dress 802.3cs, b where else besic	out a search of the es 1.4. If it is not	e draft being	The fo PON F	llowing terms are PMDs, symmetrie	e identified with defitiions bu c Super-PON PMDs, asymm	t have not been a netric Super-PON	dded to 1.4: Super- PMDs			
Sugges	tedRemedy					Suggested	IRemedy						
Del	ete undate to 1.4.23	7h DWDM Channel defition				add de Super	efintions to 1.4 PON PMDs - Fa	mily of PMDs that address n	oint-to-multipoint	(P2MP) networks			
Dropoor	d Roononoo	Beenenee Status W				operating at a MAC data rate of 10 Gb/s in the upstream direction and at a MAC data rate of 10 Gb/s or 2.5 Gb/s in the upstream direction. See Clause 164.							
Propose		Response Status W											
The TP	The term is referenced from "black link approach" and requires accomodation for different TP used in 802.3cs. No changes needed.						data rate of 10 Gb/s. See Clause 164. Asymmetric Super PON PMDs - Family of Super PON PMDs supporting the upstream MAC data rate of 2.5 Gb/s. See Clause 164.						
						Response Response Status C							
						ACCE	PT IN PRINCIPI	_E.					
Cha "or t	ange "or from MDI to from MDI to MDI for	o MDI for a given DWDM cha a given optical path within a	nnel within a Su Super-PON me	per-PON medium dium"	" to	add de Super	efintions to 1.4 -PON PMDs - Fa	amily of PMDs that address (point-to-multipoint	t (P2MP) networks,			
Stri	ke 1.4.237b					operat	ing at a MAC da	ta rate of 10 Gb/s in the dow	Instream direction	and at a MAC data			
C/ 1 Dawe, F Comme Free	SC 1.4.275a P 22 L 40 # 257 'iers Nvidia int Type E Comment Status A Spectral Range						Symmetric Super-PON PMDs - Family of Super-PON PMDs supporting the upstream MA data rate of 10 Gb/s. See Clause 164. Asymmetric Super-PON PMDs - Family of Super-PON PMDs supporting the upstream MAC data rate of 2.5 Gb/s. See Clause 164.						
Sugges free	tedRemedy spectral range (as	in 1.5 below)											
Respon ACC	se CEPT.	Response Status C											

C/ 164 SC 164.2.1

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C/ 164	SC 164.2.4	.2	P 47	L 9	# 250	C/ 164	SC ·	164.2.5	P 4	9	L11	# 254
Dambrosia	a, John		Futurewei, A	J.S. Subsidiary of	of Huawei	Dambrosia	i, John		Futur	ewei, A l	J.S. Subsidiary	of Huawei
Comment	Type TR	Comme	ent Status D		black link	Comment	Туре	ER	Comment Status	R		
In Figu to be a at fibe the MI locatio inside Suggested Show	ure 164-3 the b at the MDI's bu r that then con DI and inside th ons between th the DWDM BL dRemedy fiber to the MD	order of the I t this is differ nects to the I ne DWDM Bla ese pairs of t ack Link, whi I's that then o	Black Link (which s ent than what is sh DWDM Black Link. ack Link (TP7 / TP est points is uncleation ich is done with the connects to the DW	hould be DWDM own in other figu However, there 2 and TP6 / TP3 ar. Also how car black link appro	I Black Link) appears ires where the MDI is is also test points at). The difference in you specify anything ach?	Table 1. Cha 2. Eve as the 3. It ap defined freque Suggested	164-4 is nnel is ry colun frequer pears t d in ITU ncies - a <i>Remed</i>	ssues noted as " nn, except ncy is only hat C-Ban -T G.694. are they p	operating transmit of t C-band1 (downstre specified to 3 signif d 1 (downstream) fr 1. I don't see this sp art of another specif	hannel" i am) Free icant figu equencie ecified a ied grid?	in 45.2.1.23a.1a quency - appear ures. es are part of a I nywhere. What	a s to be approximate, DWDM frequency grid about the other
Define	e where the not	ed test points	s exiist (some sort	of cable length?		1. Cho	ose a c	onsistent	name for Table 164	4 and 45	5.2.1.23a.1a	
Proposed	Response	Respons	se Status W			2. add 3. add	referen	ces where	each column neade	ned grids	- either in table	or body of text
PROP	OSED ACCEF	PT IN PRINCI	IPLE.			Response			Response Status	C		
The dr upstre text is text ar	raft already sta am channel), t in line with wh re needed.	tes that "patc between 2 m at was used i	ch cord (TP2 for the and 5 m in length, in .3av, .3cs, and c	e downstream ch ' is used as the N ther access star	annel and TP6 for the /IDI connector. This dards. No changes to	REJEC The gr the AV	CT. id in Ta /G. One	ble 164-4 e of the FS	is not defined anyw SR (C-band 1 (down	nere else stream))	e, since it depend aligns with ITU-	ds on the properties of T G.694.1.
Renan	ne "164.2.8 Bla	ack link speci	fication" to "164.2.	8 Super-PON op	tical path specification"	C/ 164	sc ·	164.2.6.1	P 4	9	L 36	# 260
Shrink	K "Black Link" b	ox in Figure	164–3 to the way it	was in D2.1.		Dawe, Pier Comment	rs Type	E	Nvidi Comment Status	A A		
path"	Figure 164–3	an didi arrow		MDI and call it	Super-PON oplical	Makei	t easier	to look th	ings up			
C/ 164 Dambrosia	SC 164.2. 4 a, John	SC 164.2.4.2 P 47 L 11 # 253 SuggestedRemedy John Futurewei, A U.S. Subsidiary of Huawei 40 "OLT" and ONU" to four subclause headings 164.2.6.1, 164.2.6.2, 164.2.7.1 and 164.2.7.2, as is already done for the four tables, e.g. 164.2.6.1 OLT transmitter optic specifications										.2, 164.2.7.1 and transmitter optical
In Figu of the	ure 164-3 the to medium is spe	erm Black Lir cified	nk is used incorrec	ily - black link ap	DIACK IINK proach is how this part	Response ACCE	PT.		Response Status	С		
Suggested	dRemedy					C/ 164	SC ·	164.2.6.2	P5	D	L 46	# 258
Chang	ge "Black Link"	to "DWDM B	Black Link"			Dawe, Pie	rs		Nvidi	a		
Proposed	Response	Respons	se Status W			Comment	Туре	Е	Comment Status	Α		
PROP	OSED ACCER	'1.		See 1.2.6, Accuracy and resolution of numerical quantities, and guidance to editors								
						Suggested Chang	<i>Remed</i> e 6.0 to	y 6				
						Response ACCE	PT.		Response Status	С		
TYPE: TR/ COMMEN SORT OR	/technical requ T STATUS: D/ DER: Clause,	ired ER/edito dispatched A Subclause, pa	orial required GR/g Vaccepted R/rejec age, line	general required ted RESPON	T/technical E/editorial G/g SE STATUS: O/open W/wr	general itten C/closed	U/uns	atisfied Z	/withdrawn	C/ 164 SC 164	4 4.2.6.2	Page 2 of 5 9/10/2021 11:44:3

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C/ 164 SC 1	64.2.7.2	P 52	L 21	# 259	C/ 164 SC 164.	4.1	P 73	L 30	# 255			
Dawe, Piers		Nvidia			Dambrosia, John		Futurewei, A	U.S. Subsidiary	of Huawei			
Comment Type	T Comme	ent Status A			Comment Type EF	R Commer	nt Status A					
The ONU rece	ives from the OLT				In Figure 164-7, T	he label of the M	II is difficult to re	ead, and shouldn'	t' it be XGMII			
SuggestedRemedy	/				SuggestedRemedy							
Change "ONU 8.2 dB".	transmitter extinction	on ratio of 6.0 dB	" to "OLT transmi	ter extinction ratio of	correct the label. it. Example 154-1	Usually done by look at CGMII	pulling the label	outside of the bo	x and then pointing to			
Response	Respons	se Status C			change in all layer diagrams accordingly.							
ACCEPT.					Response	Response	e Status C					
C/ 164 SC 1	64.2.11.2	P 59	L 3	# 249	ACCEPT IN PRIN	ICIPLE.						
Dambrosia, John		Futurewei, A	U.S. Subsidiary	of Huawei	Change the label "xMII[0]" to "xMII" and bring it outside the box, with arrow pointing to xMII							
Comment Type	ER Comme	ent Status A			onange the label	Xiiii[0] to Xiiii	and bring it out	Side the box, with				
The following i cabling" as she Interface (MDI) The mechanic: the MAU (e.g., transmission n Powered Device	s stated - The MDI own in Figure 164–3), which states " al and electrical or o 10BASE-T) or the nedium and any ass ce (PD) or Endpoint	is the interface be 3. This is not corr optical interface b PHY (e.g., 1000E sociated (optional Power Sourcing	etween the PMD a rect, per 1.4.324 retween the trans BASE-T) and also per IEEE Std 80 Equipment (PSE	and the "fiber optic Medium Dependent nission medium and between the 2.3, Clause 33)								
SuggestedRemedy	/											
Change senter shown in Figur	nce to "The MDI is t re 164–3.	he interface betw	een the PMD and	I the PON medium, as								
Response	Respons	se Status C										
ACCEPT IN P	RINCIPLE.											
Change senter shown in Figur	nce to "The MDI is t e 164–2."	he interface betw	een the PMD and	I the PON medium, as								

C/ 164 SC 164.4.1

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C/ 164	SC 164.5.2.1	P 81	L 7	# 246	C/ 164	SC 164.5.2.	1	P 81	L 22	# 248		
Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei						Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei						
Comment	Type TR Con	nment Status D			Comment	Type TR	Comment St	tatus D		black link		
The s speci suppo increa	cope of this project per it fications and manageme orting point-to-multipoint ased-reach (up to at leas	s online PAR reads, " nt parameters for opti operations using wave t 50 km) passive optic	This amendme cal subscriber a elength division cal network (PO	nt adds physical layer access multiplexing over an N."	The noted PON medium includes "Black Link" per Fig 164-11. This does not align with 802.3ct, which is standard in-force, or updated terminology for 802.3cs. "Black link" is actually short for the methodology to define this part of the medium. This medium should be noted as "DWDM Black Link"							
However, in Fig 164-11, it is noted that the MPMC (see 164.5), which is part of the data link layer, is included in this specification. This is not within the current stated scope of the						SuggestedRemedy Change Black link to DWDM Black Link in all layer diagrams						
proje	ct.				Proposed Response Response Status W							
Suggeste	dRemedy				PROF	POSED ACCEPT	Т.					
The PAR for the project should be modified to include " It also extends the operation of Ethernet Passive Optical Networks (EPON) protocols, such as MultiPoint Control Protocol					C/ 164	SC 164.5.2.	1	P 81	L 32	# 247		
(MPC	P) and Operation Admin	istration and Manager	ment (OAM)."		Dambrosi	a, John	l	Futurewei, A	U.S. Subsidiary	of Huawei		
Refer	ence - https://www.ieee8	02.org/3/ca/documen	ts/P802_3ca_P	AR_approved.pdf	Comment	Туре Е	Comment St	tatus R				
Proposed Response Response Status W						The layer diagram references the respective layers throughout the diagram. It is not typical practice within the 802.3 specification to do this.						
	OOED REJEOT.				SuggestedRemedy							
802.3cs does not extend the operation of the MAC Control sublayer. Of all the PON-related standards in 802.3, the Super-PON is the only one that did not redefine the MAC Control.						Delete all references to the respective clauses for the noted layers. This should be done for all such layer diagrams within the draft.						
All it o	ol from 25G/25G + 25G/	lues of a few variables	s to down-rate t	ne existing C144 MAC	Response		Response St	atus C				
MAC	Control sublayer block di	agrams, message for	mats, protocol	behavior, and state	REJECT.							
diagrams are only defined in C144. In fact, the same approach is taken with Super-PON RS, PCS, and PMA sublayers. They all just show new variable definitions and the text showing new data rates / line rates where needed. All together, the RS, PCS, PMA, and						This approach was used in all EPON clauses to date and has been found useful. No changes needed						
speci	fications in 802.3ca are 1	18 pages, not countir	ng the associate	ed annexes. In Super-	C/ 164A	SC 164A.1		P 96	L6	# 256		
PON, the PMD clause is the only new sublayer.						a, John	l	Futurewei, A	U.S. Subsidiary	of Huawei		
No changes to the PAR needed. No changes to the draft needed at this time.					<i>Comment</i> Use o	<i>Type</i> ER f black link termi	Comment St inology is incorre	<i>tatus</i> D ect		black link		
					Suggestee	dRemedy		k in all rooma	ortivo plaços is th	is appay		
					Dremessel			k in all respe	cuve places in tr			
					Proposed	response	Response St	atus W				

PROPOSED ACCEPT.

C/ 164A SC 164A.1

Proposed Responses IEEE P802.3cs D2.3 SuperPON Task Force 3rd Working Group recirculation ballot comments

C/ 164A	SC 164A.5.3	P1	03	L6	# 261
Dawe, Pie	rs	Nvidia	а		
Comment	Туре Е	Comment Status	Α		
Sugge	sted improvement	s for Figure 164A-4	ŀ		
Suggested	Remedy				
"Pen" s Units a Colour x axis s Trailing While	should be spelled are generally in rou should not be use should be at botto g zeros should not you are there: "DS	out twice. Ind brackets. Ind if not necessary f m of graph. be included. " could be written c	for clarity/c	comprehen	sion.
Response		Response Status	С		
ACCE	PT IN PRINCIPLE	-			
Spell o Put un Move 2 Remov Spell o	out "Pen" twice. its in round bracke X axis to the botton ve trailing zeros fro out DS and US ten	ets. m of graph. om the X axis value ms.	s		

C/ 164A SC 164A.5.3