IEEE P802.3ct D3.3 100 Gb/s over DWDM systems 3rd Sponsor recirculation ballot comments

C/ 154	SC ·	154.11		P 122	L 36	# <u>R</u> 3-1	C/ 154	SC	154.12.3	P 124		L 8	# <u>R</u> 3-2
Ran, Adee			In	tel Corporation	l		Ran, Adee			Intel Cor	poration	l	
Comment	Туре	TR	Comment Sta	tus A			Comment 7	Гуре	TR	Comment Status A			
shown	in Figu	re 154-2"				iver input with TP3, as	implem	enters	to certify of	d TP4 state that TP1 a component conforman is only an option.			e available for use by .1. But 154.5.1 has no
cord in	betwee	en. "The N	OTETransmit	er compliance	testing is perfe	/DI; there is a patch ormed at TP2 as I are different points.				clauses, the correspo TP4, but in 154.5.1 it s			gram" clause included omitted.
definiti	ons of ⁻					(which have common diction which must be	The su be rem		d remedy i	s to add similar text in	154.5.1	. Alternatively	, the PICS items can
elimina	ated.						Suggested	Remed	ly				
There		eral unsa				el's end points are. , so this should be	"TP1 a	nd TP4 compo	are inforn	raph at the end of 154. native reference points se test points will not t	that ma		
end of deploy indeed	For a possible remedy, consider that the definition of TP2 is given in 154.5.1 as "the output end of a single-mode fiber patch cord (TP2), between 2 m and 5 m in length", and in a deployed system, that patch cord may not exist (or may be of a different length); these are indeed cases where the MDI and TP2 will coincide.				Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ct/D3.3 and IEEE P802.3ct/D3.2 or the unsatisfied negative comments from the previous ballots. Hence it is not within the scope of the recirculation ballot.								
may	coincio	de with TF		al transmitter's	s output is not	o state that the MDI tested for compliance.	Howev	er, the		uggested are an impro			nat would otherwise
is not µ (althou be mo	part of t ugh this dified to	he chann is differer move the	el, then the MDI nt from previous	should be rede optical PHYs). gn with TP2; a	fined as the e In that case, f nd 154.11 nee	IP2 always exists and nd of the patch cord Figure 154-2 needs to ds to be rewritten to uld be deleted.	"TP1 a testing	nd TP4 compo	are inform	raph at the end of 154. native reference points se test points will not t license.	that ma		
Suggested	Remed	'y											
	transm	nitter outp re 154-2"	ut the MDI coinc	des with TP2 a	and at the rece	viver input with TP3, as							
transm compli	nitter ou	tput, the I nd in that	4-2, at the receiv MDI may coincid case any mediu	e with TP2 whe	n the output is								
Response			Response Sta	tus C									
Delete	the ser				coincides with	n TP2 and at the							

4/27/2021 8:50:38 AM

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

IEEE P802.3ct D3.3 100 Gb/s over DWDM systems 3rd Sponsor recirculation ballot comments

C/ 1	SC 1.4.237b	P 23	L16	# R3-3	C/ 1	SC [,]	1.4.160a	P 23	L	# <u>R</u> 3-4
Ran, Ade	e	Intel Corporat	tion		Ran, Adee	e		Intel Corpora	ition	
Commen	t Type TR	Comment Status R			Comment	Туре	TR	Comment Status R		
*** Comment submitted with the file image.png attached ***							roach should not be specifi n Clause 1. Stating the test			

Joining unsatisfied comment R2-13.

The definition of the DWDM channel is between DWDM PHYs. The boundary of a DWDM PHY is its MDI, which coincides with TP3 at the receiver, but does not necessarily coincide with TP2 at the transmitter, as seen by Figure 154-2.

Text parentheses should clarify the main text, but here the terms "(TP2)" and "(TP3)" are only adding confusion. The definition would be clear without them.

SuggestedRemedy

Delete the parenthesized terms in this definition.

Response	Response Status	С
REJECT.		

Note: The commentor clarified that "*** Comment submitted with the file image.png attached ***" was not intended to be part of the comment and should be ignored.

The use of TP2 and TP3 in definitions has been discussed at length during the review of comments on D3.2 with relation to comment R2-13, for which the resolution was:

REJECT.

As noted by the commenter this same change was proposed in D3.0 comment 87 and 3.1 comment 82. In both cases the wording of the definition was modified but the use of TP2 and TP3 was maintained. As consistent with existing IEEE language, the draft states the optical transmit signal is defined at the output end of a single-mode fiber patch cord TP2)" and "the optical receive signal is defined at the output of the fiber optic cabling (TP3) at the MDI" so the supporting medium which in this case is a DWDM channel, has to be from TP2 to TP3.

Furthermore the proposed modifications will not improve the quality of the draft.

Discussion on the use of TP2 and TP3 was discussed during the IEEE P802.3ct Terminology (Part II) ad hoc meetings, documented at https://www.ieee802.org/3/ct/public/adhoc/index.html. SuggestedRemedy

Change "from TP2 to TP3" to "from a transmitter to a receiver".

Response Response Status C

makes it hard to understand.

again with a specific change.

REJECT.

The use of TP2 and TP3 in definitions has been discussed at length during the review of comments on D3.2 with relation to comment R2-13, for which the resolution was:

This has been suggested in a previous comment I-87, which was resolved with AIP, but the remedy did not address the comment at all. Other comments since then show that the

identification of TP2 with the MDI creates problems. Therefore the comment is submitted

An acceptable alternative to the proposed change would be to delete "from TP2 to TP3".

REJECT.

As noted by the commenter this same change was proposed in D3.0 comment 87 and 3.1 comment 82. In both cases the wording of the definition was modified but the use of TP2 and TP3 was maintained. As consistent with existing IEEE language, the draft states the optical transmit signal is defined at the output end of a single-mode fiber patch cord TP2)" and "the optical receive signal is defined at the output of the fiber optic cabling (TP3) at the MDI" so the supporting medium which in this case is a DWDM channel, has to be from TP2 to TP3.

Furthermore the proposed modifications will not improve the quality of the draft.

Discussion on the use of TP2 and TP3 was discussed during the IEEE P802.3ct Terminology (Part II) ad hoc meetings, documented at https://www.ieee802.org/3/ct/public/adhoc/index.html.

Comment ID R3-4

IEEE P802.3ct D3.3 100 Gb/s over DWDM systems 3rd Sponsor recirculation ballot comments

C/ 1	SC 1.4.237b	P 23	L 35	# R3-5
Dawe, Pier	s J G	NVIDIA		
Comment T	Type TR	Comment Status R		

As D3.0 comment 87, D3.1 comment 82 and D3.2 comment 13 pointed out, and as 154.5.1 and 154.11 say, TP2 is not at the PHY/MDI. It is important that readers are not misled so that transmitter testing is done correctly for all optical transmitters, at TP2.

SuggestedRemedy

Quick fix but not consistent with other optical clauses: change:

The transmission path from a transmitting DWDM PHY (TP2) to a receiving DWDM PHY (TP3)

to:

The transmission path from TP2 after a transmitting DWDM PHY to a receiving DWDM PHY (TP3)

and in 154.11, change:

The 100GBASE-ZR PMD is coupled to the DWDM black link medium at the MDI, being the interface between the PMD and the medium. At the transmitter output the MDI coincides with TP2 and at the receiver input with TP3, as shown in Figure 154-2.

to:

The 100GBASE-ZR PMD is coupled to a patch cord at the MDI then to the DWDM black link medium at TP2. At the transmitter output the MDI is before TP2 and at the receiver input the MDI coincides with TP3, as shown in Figure 154-2.

and in 154A.4, change:

where the PMDs at TP2 and TP3 are connected...

to:

where the PMDs are connected...

Better fix: make the "DWDM channel" consistent with the "DWDM black link medium" in 154.11, the "medium" in 154.1, the "channel" as in so many optical clauses, e.g. Figure 38-7, Fiber optic cabling model or Figure 151-7, Fiber optic cabling model, and with "link segment" (see 1.4.309), so that it extends from MDI to MDI - fixing 1.4.237b, 154.11 and 154A.4 another way.

Response

Response Status U

REJECT.

The use of TP2 and TP3 in definitions has been discussed at length during the review of comments on D3.2 with relation to comment R2-13, for which the resolution was:

REJECT.

As noted by the commenter this same change was proposed in D3.0 comment 87 and 3.1 comment 82. In both cases the wording of the definition was modified but the use of TP2 and TP3 was maintained. As consistent with existing IEEE language, the draft states the optical transmit signal is defined at the output end of a single-mode fiber patch cord TP2)" and "the optical receive signal is defined at the output of the fiber optic cabling (TP3) at the MDI" so the supporting medium which in this case is a DWDM channel, has to be from TP2 to TP3.

Furthermore the proposed modifications will not improve the quality of the draft.

Discussion on the use of TP2 and TP3 was discussed during the IEEE P802.3ct Terminology (Part II) ad hoc meetings, documented at https://www.ieee802.org/3/ct/public/adhoc/index.html.

C/ 154	SC 154.7.1	P 115	L 23	# R3-6	
Dawe, Pie	ers J G	NVIDIA			
Comment	Туре Т	Comment Status A			
I am satisfied with the current draft as it relates to my comment 58 against D3.0, and					
comm	nents 79, 84, 87	and 95 against D3.1.			

SuggestedRemedv

Response Response Status C

ACCEPT IN PRINCIPLE.

The commenter stated his satisfaction with previous resolution to his comments I-58 against D3.0, and comments R1-79, R1-84, R1-87 and R1-95 against D3.1.

During the comment resolution meeting the commenter also stated his satisfaction with the previous resolution to D3.0 comment I-59.

Make no change to the draft.

C/ 154	SC 154.2	P 108	L 25	# R3-7
Dawe, Piers	JG	NVIDIA		

Comment Type T Comment Status A

With regard to D3.0 comment 59: this says "The SIGNAL_DETECT parameter can take on one of two values: OK or FAIL", consistent with comment 59's request. However, 154.5.4 says "... shall set the state of the SIGNAL_DETECT parameter to a fixed OK value".

SuggestedRemedy

Reconcile

Response Response Status C

ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ct/D3.3 and IEEE P802.3ct/D3.2 or the unsatisfied negative comments from the previous ballots. Hence it is not within the scope of the recirculation ballot.

However, the changes suggested are an improvement to the draft that would otherwise need to be made in Maintenance.

Change

"The SIGNAL_DETECT parameter can take on one of two values: OK or FAIL. When SIGNAL_DETECT = FAIL, the rx_symbol parameters are undefined." to

"The SIGNAL DETECT parameter takes a fixed value of OK."

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: Comment ID

Comment ID R3-7

Page 3 of 3 4/27/2021 8:50:39 AM