IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

C/FM SC FM	P <b>0</b>	L <b>0</b>	# 435	C/ <b>45</b>	SC 45.2.1.17	5	P 23	L <b>40</b>	# 436	
lajduczenia, Marek	Charter Com	munications		Hajduczer	nia, Marek		Charter Com	nmunications		
Comment Type E	Comment Status D		bucket	Comment	Туре Т	Commen	t Status D			
Update FM to revision 5	5.0 from https://www.ieee802	2.org/3/tools/fram	emaker/index.html	D2.1 r	eceived a numbe	er of commen	ts (#355, #361	, #367, #377, #38	3, #389, #358, #3	360,
SuggestedRemedy								#392, #394) askin o better differentia		nes of
Per change				resolu	ition. The same n	aming chang	e needs to be	propagated into m	ore places in Cla	use
Proposed Response	Response Status W				ecifically into cap e 45-139 for PMA		ers in the follow	ing tables and as	sociated text	
PROPOSED ACCEPT.				oTable	e 45-230 for WIS					
C/ 30 SC 30.13.1	P18	L <b>6</b>	# 465		e 45-293 for PCS e 45-336 for PHY	XS				
Tse, Richard	Microchip Te	chnology		oTable	e 45-361 for DTE					
Comment Type <b>T</b>	Comment Status D	0,			e 45-375 for TC					
	uld be updated so all the Tim			Suggested				a ar fina al Querra la com		
	sponding management object				ment the following			ng find&replace: ata delay ability" t	o "TimeSvnc trai	smit
sub-nanoseconds), whe	e capabilities, the min/max T ether the multiple PCS lane o	delay is handled r	anoseconds and in per 802.3cx, whether	path d	lata delay ability,	in sub-ns" (1	0x) .			
				ahan	ige "TimeSync fin	ne resolution	receive nath da	ta dalav ahilitv" to	) "TimeSvnc rece	
dynamic delay changes	are handled per 802.3cx, ar							the delay ability it	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ive
	are handled per 802.3cx, an			path d	lata delay ability,	in sub-ns" (1	0x)	[transmit receive	·	
Subclause 90.6 should				path d - chan registe	lata delay ability, nge "the sub-ns-re ers" to "the XXX [t	in sub-ns" (1 esolution fine transmit/rece	0x) resolution XXX ive] path data o	([transmit receive delay registers, in	] path data delay sub-ns resolution	ו" (4x)
Subclause 90.6 should	are handled per 802.3cx, an also be updated for this.	nd the selected D	DMP.	path d - chan registe - chan	lata delay ability, ige "the sub-ns-re ers" to "the XXX [i ige "the fine resol	in sub-ns" (1 esolution fine transmit rece lution XXX [tr	0x) resolution XXX ive] path data o ansmit receive	[transmit receive delay registers, in   path data delay r	] path data delay sub-ns resolution egisters" to "the	ו" (4x)
Subclause 90.6 should SuggestedRemedy The draft text from the t	are handled per 802.3cx, an	nd the selected D resolve this issue	DMP. e, which was identified	path d - chan registe - chan [transr - chan	ata delay ability, age "the sub-ns-re ers" to "the XXX [t age "the fine resol mit receive] path age "the ns-resolu	in sub-ns" (1 esolution fine transmit rece lution XXX [tr data delay re ution XXX [tra	0x) resolution XXX ive] path data o ansmit receive gisters, in sub- nsmit receive]	[transmit receive delay registers, in path data delay r ns resolution" (7x) path data delay re	] path data delay sub-ns resolution registers" to "the )	n" (4x) XXX
Subclause 90.6 should SuggestedRemedy The draft text from the t while trying to resolve m	are handled per 802.3cx, an also be updated for this. team that was assembled to	nd the selected D resolve this issue	DMP. e, which was identified	path d - chan registe - chan [transr - chan [transr	ata delay ability, ge "the sub-ns-re- ers" to "the XXX [the ge "the fine resol mit receive] path of ge "the ns-resolu mit receive] path of mit rece	in sub-ns" (1 esolution fine transmit/rece lution XXX [tr data delay re ution XXX [tra data delay re	0x) resolution XXX ive] path data ( ansmit receive] gisters, in sub- nsmit receive] gisters, in ns re	([transmit receive delay registers, in   path data delay r ns resolution" (7x) path data delay re esolution" (4x)	] path data delay sub-ns resolution registers" to "the ) egisters" to "the X	n" (4x) XXX XX
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 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 45
 Page 1 of 11

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 45.2.1.175
 2/23/2022 8:30:01 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 45.2.1.175
 SC 45.2.1.175
 2/23/2022 8:30:01 AM

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

CI <b>45</b>	SC 45.2.3.67	P 30	L 31	# 432	C/ <b>45</b>	SC 45.2.3.67	7	P <b>52</b>	L21	# 433
Dawe, Pier	rs	Nvidia			Dawe, Pier	s		Nvidia		
Comment 1	Туре Е	Comment Status D			Comment 7	Туре Е	Comment S	tatus D		E
	provide cross-re	ferences								nit path data delay". nes? ns? or 2e-16 ns'
Suggestedl	-				Suggested					
		gisters - provide cross-refere the other similar MDIO regi		propriate places(s) in	••	-	its the number re	epresents.		
Proposed F	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			Proposed F	Response	Response Si	tatus W		
PROPO	OSED REJECT.				PROPO	OSED ACCEPT	IN PRINCIPLE			
		e already combined in "90.6 0 ion. No changes to the draft P <b>30</b>		agement features" for # 473	parame ranging	eter that suppor from -32768 to	ts dynamic trans +32767 indicat	smit path data ing the numb	a delay calculation	PDDPD) is an optional n. It provides a value es of dynamic transmit
Tse, Richa	ırd	Microchip Teo	chnology		C/ <b>45</b>	SC 45.2.3.67	7 1	P <b>31</b>	L36	# 439
Comment 1	Туре Т	Comment Status D			Ran, Adee			Cisco	230	# 433
								CISCO		
		of capabilities, but register 3			,		Comment S	tatus D		huck
"suppo	ort". It should be	of capabilities, but register 3 labelled as an "ability", as th			Comment 1	Гуре Е	Comment S	tatus D		buck
"suppo S <i>uggestedl</i>	ort". It should be l Remedy	labelled as an "ability", as th	e other entries ir	n this table are.	Comment 7 "does r	<i>Type</i> E not supports"			.67.2, 45.2.5.28.1	buck , and 45.2.5.28.2.
suppo" <i>Suggestedl</i> Change	ort". It should be <i>Remedy</i> e name of registe	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to	e other entries ir	n this table are.	Comment 7 "does r	Type E not supports" tion to this subc			.67.2, 45.2.5.28.1	
suppo" Suggestedl Change 45.2.3.1	ort". It should be <i>Remedy</i> e name of registe 67.3, 90A.2, and	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to 1 90A.3.	e other entries ir	n this table are.	Comment T "does r In addit Suggested	<i>Type</i> <b>E</b> not supports" tion to this subc <i>Remedy</i>		ars in 45.2.3.	.67.2, 45.2.5.28.1	
suppo" Suggested Change 45.2.3.1 Proposed F	rt". It should be <i>Remedy</i> e name of registe 67.3, 90A.2, and Response	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to	e other entries ir	n this table are.	Comment T "does r In addit Suggested	Type E not supports" tion to this subc Remedy e to "does not s	clause, this appe upport", 4 instar	ears in 45.2.3. nces	.67.2, 45.2.5.28.1	
suppo" Suggested Change 45.2.3.1 Proposed F	ort". It should be <i>Remedy</i> e name of registe 67.3, 90A.2, and	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to 1 90A.3.	e other entries ir	n this table are.	Comment T "does r In addit Suggested Change Proposed F	Type E not supports" tion to this subc Remedy e to "does not s	clause, this appe upport", 4 instar <i>Response Si</i>	ears in 45.2.3. nces	.67.2, 45.2.5.28.1	
suppo" Suggested Change 45.2.3. Proposed F PROPC	rt". It should be <i>Remedy</i> e name of registe 67.3, 90A.2, and Response	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to 1 90A.3.	e other entries ir	n this table are.	Comment T "does r In addit Suggested Change Proposed F PROPO	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT	clause, this appe upport", 4 instar <i>Response St</i>	ears in 45.2.3. nces tatus W		, and 45.2.5.28.2.
"suppo Suggested/ Change 45.2.3. Proposed F PROPO CI <b>45</b>	nt". It should be <i>Remedy</i> e name of registe 67.3, 90A.2, and <i>Response</i> OSED ACCEPT. SC <b>45.2.3.67</b>	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to 90A.3. <i>Response Status</i> <b>W</b>	e other entries ir o "Multilane abilit <i>L</i> 5	n this table are. ry" in Table 45-293,	Comment T "does r In addii Suggestedi Change Proposed F PROPO	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67	clause, this appe upport", 4 instar <i>Response Si</i>  <b>7.8</b>	ears in 45.2.3. nces tatus W P32	L 47	
suppo" Suggested Change 45.2.3.1 Proposed F	nt". It should be Remedy e name of registe 67.3, 90A.2, and Response OSED ACCEPT. SC <b>45.2.3.67</b> ard	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to 9 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b>	e other entries ir o "Multilane abilit <i>L</i> 5	n this table are. ry" in Table 45-293,	Comment T "does r In addit Suggested Change Proposed F PROPO CI <b>45</b> Hajduczeni	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek	clause, this appe upport", 4 instar <i>Response St</i>  <b>7.8</b>	ears in 45.2.3. nces <i>tatus</i> W <i>P</i> 32 Charter Com	L 47	, and 45.2.5.28.2.
"suppo Suggested/ Change 45.2.3.1 Proposed F PROPO CI 45 Tse, Richal Comment 1 Table 4	nt". It should be in Remedy e name of registe 67.3, 90A.2, and Response OSED ACCEPT. SC 45.2.3.67 Ind Type T 45-293 is a talbe	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1	n this table are. ty" in Table 45-293, # 474	Comment T "does r In addit Suggestedi Change Proposed F PROPO Cl <b>45</b> Hajduczeni Comment T	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i>	ears in 45.2.3. nces <i>tatus</i> W P32 Charter Com <i>tatus</i> D	L 47 Imunications	, and 45.2.5.28.2. # <u>438</u>
"suppo Suggested/ Change 45.2.3. Proposed F PROPO CI 45 Tse, Richal Comment 1 Table 4 labelled	nt". It should be in Remedy e name of registe 67.3, 90A.2, and Response OSED ACCEPT. SC 45.2.3.67 Ind Type T 45-293 is a talbe	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b>	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1	n this table are. ty" in Table 45-293, # 474	Comment T "does r In addit Suggested Change Proposed F PROPO C/ 45 Hajduczeni Comment T Bit 3.18	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 300.0 does not i	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine res	ears in 45.2.3. Inces <i>tatus</i> W P32 Charter Com <i>tatus</i> D olution suppo	L 47 imunications ort: "When read as	# 438 # 438
"suppo Suggested/ Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richa Comment 1 Table 4 labelled are.	nt". It should be in the should be in th	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1	n this table are. ty" in Table 45-293, # 474	Comment T "does r In addii Suggestedi Change Proposed F PROPO Cl 45 Hajduczeni Comment T Bit 3.18 indicate	Type E not supports" tion to this subc Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 300.0 does not i es that the PCS	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine res	ears in 45.2.3. Inces tatus W P32 Charter Com tatus D olution suppo ort the fine res	L 47 imunications ort: "When read as solution PCS rece	# 438 # 438 # 438
"suppo Suggested/ Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richa Comment 1 Table 4 labelled are. Suggested/	nt". It should be in Remedy e name of registe 67.3, 90A.2, and Response OSED ACCEPT. SC 45.2.3.67 and Type T 45-293 is a talbe d as "support". It Remedy	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3 s should be labelled as an "a	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_ bility", as the oth	n this table are. ry" in Table 45-293, # <u>474</u> UNIT_CHANGE is er entries in this table	Comment T "does r In addit Suggested Change Proposed F PROPO C/ 45 Hajduczeni Comment T Bit 3.18 indicate register	Type E not supports" tion to this subo Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 300.0 does not i es that the PCS rs (3.1805 throu	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine res	ears in 45.2.3. Inces tatus W P32 Charter Com tatus D olution suppo ort the fine res	L 47 imunications ort: "When read as	# 438 # 438 # 438
"suppo Suggested/ Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richa Comment 1 Table 4 labellec are. Suggested/ Change	nt". It should be Remedy e name of registe 67.3, 90A.2, and Response OSED ACCEPT. SC 45.2.3.67 ard Type T 45-293 is a talbe d as "support". It Remedy e name of registe	labelled as an "ability <sup>"</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1 bility", as the oth	n this table are. ry" in Table 45-293, # <u>474</u> UNIT_CHANGE is er entries in this table	Comment T "does r In addit Suggestedu Change Proposed F PROPO Cl 45 Hajduczeni Comment T Bit 3.18 indicate registed	Type E not supports" tion to this subo Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 300.0 does not i es that the PCS rs (3.1805 throu Remedy	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine resi i does not suppo ugh 3.1808)." is j	ears in 45.2.3. Inces tatus W P32 Charter Com tatus D olution suppo ort the fine res just wrong ma	L 47 munications ort: "When read as solution PCS rece aking reference to	# 438 # 438 s a zero, bit 3.1800.0 eive path data delay o "fine resolution"
"suppo Suggestedl Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richa Comment 1 Table 4 labellec are. Suggestedl Change ability"	nt". It should be in <i>Remedy</i> e name of registe 67.3, 90A.2, and <i>Response</i> OSED ACCEPT. SC <b>45.2.3.67</b> and <i>Type</i> <b>T</b> 45-293 is a talbe d as "support". It <i>Remedy</i> e name of registe in Table 45-293,	labelled as an "ability <sup>#</sup> , as th er from "Multilane Support" to 4 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3 should be labelled as an "a er from "NUM_UNIT_CHANC 45.2.3.67.4, 90A.2, and 90	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1 bility", as the oth	n this table are. ry" in Table 45-293, # <u>474</u> UNIT_CHANGE is er entries in this table	Comment T "does r In addit Suggestedu Change Proposed F PROPO Cl 45 Hajduczeni Comment T Bit 3.18 indicate registed Suggestedu Change PCS re	Type E not supports" tion to this subo Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 300.0 does not i es that the PCS rs (3.1805 throu Remedy e to "When read acceive path data	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine res does not suppo ugh 3.1808)." is j d as a zero, bit 3 a delay registers	ears in 45.2.3. nces tatus W P32 Charter Com tatus D olution suppo ort the fine res just wrong ma 3.1800.0 indic (3.1805 throu	<i>L</i> <b>47</b> Imunications ort: "When read as solution PCS rece aking reference to rates that the PCS	# 438 # 438 # 438
"suppo Suggestedl Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richal Comment 1 Table 4 labelled are. Suggestedl Change ability" Proposed F	nt". It should be in <i>Remedy</i> e name of registe 67.3, 90A.2, and <i>Response</i> OSED ACCEPT. SC <b>45.2.3.67</b> and <i>Type</i> <b>T</b> 45-293 is a talbe d as "support". It <i>Remedy</i> e name of registe in Table 45-293, <i>Response</i>	labelled as an "ability <sup>#</sup> , as th er from "Multilane Support" to d 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3 c should be labelled as an "a er from "NUM_UNIT_CHANC	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1 bility", as the oth	n this table are. ry" in Table 45-293, # <u>474</u> UNIT_CHANGE is er entries in this table	Comment T "does r In addit Suggestedu Change Proposed F PROPO Cl 45 Hajduczeni Comment T Bit 3.18 indicate registed Suggestedu Change PCS re The sa	Type E not supports" tion to this subor Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 800.0 does not i es that the PCS rs (3.1805 throu Remedy e to "When read acceive path data me problem exit	clause, this appe upport", 4 instar <i>Response Si</i> <b>7.8</b> <i>Comment S</i> indicate fine res i does not suppo ugh 3.1808)." is j d as a zero, bit 3	ears in 45.2.3. nces tatus W P32 Charter Com tatus D olution suppo ort the fine res just wrong ma 3.1800.0 indic (3.1805 throu	<i>L</i> <b>47</b> Imunications ort: "When read as solution PCS rece aking reference to rates that the PCS	# 438 # 438 s a zero, bit 3.1800.0 eive path data delay o "fine resolution"
"suppo Suggestedl Change 45.2.3. Proposed F PROPO Cl 45 Tse, Richal Comment 1 Table 4 labelled are. Suggestedl Change ability" Proposed F	nt". It should be in <i>Remedy</i> e name of registe 67.3, 90A.2, and <i>Response</i> OSED ACCEPT. SC <b>45.2.3.67</b> and <i>Type</i> <b>T</b> 45-293 is a talbe d as "support". It <i>Remedy</i> e name of registe in Table 45-293,	labelled as an "ability <sup>#</sup> , as th er from "Multilane Support" to 4 90A.3. <i>Response Status</i> <b>W</b> <i>P</i> <b>31</b> Microchip Teo <i>Comment Status</i> <b>D</b> of capabilities, but register 3 should be labelled as an "a er from "NUM_UNIT_CHANC 45.2.3.67.4, 90A.2, and 90	e other entries ir o "Multilane abilit <i>L</i> 5 chnology 5.1800.10 NUM_1 bility", as the oth	n this table are. ry" in Table 45-293, # <u>474</u> UNIT_CHANGE is er entries in this table	Comment T "does r In addit Suggestedu Change Proposed F PROPO Cl 45 Hajduczeni Comment T Bit 3.18 indicate registed Suggestedu Change PCS re	Type E not supports" tion to this subor Remedy e to "does not s Response OSED ACCEPT SC 45.2.3.67 ia, Marek Type T 800.0 does not i es that the PCS rs (3.1805 throu Remedy e to "When read acceive path data me problem exit	clause, this appe upport", 4 instar <i>Response Si</i> 7.8 <i>Comment S</i> indicate fine res does not suppo ugh 3.1808)." is j d as a zero, bit 3 a delay registers	ears in 45.2.3. hces tatus W P32 Charter Com tatus D olution suppo ort the fine res just wrong ma 3.1800.0 indic (3.1805 throu 6	<i>L</i> <b>47</b> Imunications ort: "When read as solution PCS rece aking reference to rates that the PCS	# 438 # 438 s a zero, bit 3.1800.0 eive path data delay o "fine resolution"

C/ 45 SC 45.2.3.67.8 Page 2 of 11 2/23/2022 8:30:02 AM

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

C/ 45 SC 45.2.3.69a.1											
6 45 30 45.2.3.09d.1	P 35	L 32	# 470		C/ <b>45</b>	SC 45.2.5.3	1.1 F	° <b>44</b>	L <b>5</b>	# 472	
Tse, Richard	Microchip Tech	hnology			Tse, Richa	rd	Mic	crochip Te	chnology		
Comment Type E Comm Fix sentence structure	ent Status D			bucket	Comment 7 Senten		Comment Statu wrong register and		perly structured		
SuggestedRemedy Change					Suggested Change	-					
"Writes to this bit are also be ignore equivalent capability bits in regist							also be ignored if th bits in register (3.180				
to					to						
"Writes to this bit are ignored if th corresponding capability bits in re							ignored if they atten lity bits in register (5				
Proposed Response Respon PROPOSED ACCEPT.	nse Status W				Proposed F PROP	Response DSED ACCEP <sup>-</sup>	Response Statu T.	s W			
C/ 45 SC 45.2.5.31.1	P 44	L <b>3</b>	# 471		C/ 90	SC 90.3	F	<sup>o</sup> 48	L <b>41</b>	# 440	
Tse, Richard	Microchip Tech	hnology			Ran, Adee		Cis	CO			
Comment Type T Comm need to indicate DDMP is the beg	ent Status <b>D</b> ginning of the first sy	/mbol after the	SFD			nentioning IEE	Comment Statu E Std 802.3 interna Compare with 90.4	lly, it is co	mmon to call it "t	his standard" rath	<i>bucke</i> ier
SuggestedBernedy											
SuggestedRemedy Change					Suggested	-	scope of IEEE Std 8	02.3" to "o	outside the scope	of this standard"	
	fter the SFD is used	as the data del	ay measuremen	nt point"	Suggestedi Change Proposed F	e "outside the s	cope of IEEE Std 8 Response Statu T.		outside the scope	e of this standard"	
Change "When set to 1 the first symbol at to "When set to 1 the beginning of t					Suggestedi Change Proposed F	e "outside the s Response	Response Statu T.		L 43	e of this standard" # 441	
Change "When set to 1 the first symbol at to "When set to 1 the beginning of t measurement point"	he first symbol after				Suggestedi Change Proposed F PROPO	e "outside the s Response DSED ACCEP	Response Statu T.	<sup>2</sup> 48			
Change "When set to 1 the first symbol at to "When set to 1 the beginning of t measurement point"					Suggested Change Proposed F PROPO C/ 90 Ran, Adee Comment T There a	e "outside the s Response DSED ACCEP" SC 90.4 Type E are no changes	Response Statu T.	2 <b>48</b> 2 48 2 00 2 00 2 10 2 10 2 10 2 10 2 10 2 10	L <b>43</b> 4.1, only in 90.4.1	# 441	bucke
Change "When set to 1 the first symbol at to "When set to 1 the beginning of t measurement point" Proposed Response Respon	he first symbol after				Suggested Change Proposed F PROP( C/ 90 Ran, Adee Comment T There a (with no	e "outside the s Response DSED ACCEP" SC 90.4 Type E are no changes o editorial instru	Response Statu T. F Cis Comment Statu s in the body of subc	2 <b>48</b> 2 48 2 00 2 00 2 10 2 10 2 10 2 10 2 10 2 10	L <b>43</b> 4.1, only in 90.4.1	# 441	bucke
Change "When set to 1 the first symbol at to "When set to 1 the beginning of t measurement point" Proposed Response Respon	he first symbol after				Suggested Change Proposed F PROPO Cl 90 Ran, Adee Comment T There a (with no	e "outside the s Response DSED ACCEP" SC 90.4 Type E are no changes o editorial instru Remedy	Response Statu T. F Cis Comment Statu s in the body of subc	248 248 acco <i>Is</i> <b>D</b> clause 90.4 be included	L <b>43</b> 4.1, only in 90.4.1 d.	# 441	bucke

Page 3 of 11 2/23/2022 8:30:02 AM

CI 90	SC 90.4.1.1	P 50	L <b>46</b>	# 442
Ran, Adee	•	Cisco		
Comment	Туре Е	Comment Status D		bucket
There	seems to be no c	hange in the text of either I	NOTE 1 or NOTE	2.
Suggested	Remedy			
Remov	ve both notes and	the editorial instruction fro	m the amendmer	nt.
Proposed I	Response	Response Status W		
PROP	OSED ACCEPT.			
C/ 90	SC 90.4.1.2	P 51	L <b>4</b>	# 443
Ran, Adee	•	Cisco		
Comment	Туре Т	Comment Status D		
	,	an use the indication of the ided by the TSSI, combined		0

ingress of packets provided by the TSSI, combined with knowledge of the time synchronization protocol frames, to capture the egress and ingress time of packets relevant to the protocol at the xMII. Which frames are of interest to any particular protocol is beyond the scope of this standard".

The words "packets" and "frames" are used apparently interchangeably in these two sentences. Other than here, clause 90 only refers to packets (15 times), and the word "frame" appears only in "start frame delimiter".

A "packet" is defined in 1.4.447 as "consists of a MAC frame (...) preceded by the Preamble and the SFD (...)".

To avoid confusion, it is suggested to use "packet" instead of "frame" throughout this amendment except in "start frame delimiter".

#### SuggestedRemedy

Change "frame" to "packet" twice in the quoted sentence.

Proposed Response Response Status W PROPOSED ACCEPT.

CI 90	SC 90.4.1	.2 P51	L12	# 444
Ran, Ade	ee	Cisco		
Commen	t Type <b>T</b>	Comment Status D		
	0	and "egress" are used in this o lictionary meaning.	clause with specif	ic meanings that are
		times are associated with spec egress time" in the text does no		sing the bare terms

To clarify the intent for readers who did not participate in the discussions of this amendment, some rephrasing would be beneficial.

#### SuggestedRemedy

Use the term "event" for ingress and egress and have the times associated with events.

#### As an example, change the first sentence from

"When the TimeSync Client captures a relevant egress time, it can use that egress time at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time at the MDI" to

"When the TimeSync Client captures a relevant packet egress event, it can use the time of that event at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time of that packet at the MDI".

Make corresponding changes in the sentences about ingress, starting on line 16.

Proposed Response	Response Status	w
PROPOSED ACCEP	T IN PRINCIPLE.	

Change the first sentence from

"When the TimeSync Client captures a relevant egress time, it can use that egress time at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time at the MDI"

to

"When the TimeSync Client detects a relevant packet egress event, it can use the time of that event at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time of that packet at the MDI".

Make corresponding changes in the sentences about ingress, starting on line 16.

C/ 90 SC 90.4.1.2 Page 4 of 11 2/23/2022 8:30:02 AM

C/ 90	SC 90.4.1.2	P 51		L16	# 445		C/ 90	SC 9	0.4.3.1	P 51		L <b>42</b>	# 446
Ran, Adee		Cisco					Ran, Adee			Cisco			
Comment T	ype E	Comment Status	D			bucket	Comment 7	Туре	т	Comment Status	D		
Comment T The ser a chang be on s SuggestedF Add a p Proposed R	ntence starting w ge of topic - prev eparate paragra Remedy paragraph break	Comment Status with "When the TimeS ious sentences were	Sync Client ca about packet			ime" is	Comment 1 The ter From it meanin as a pa associa It is sug sugges term. Alterna detecte other u Suggestedi Insert t "The se point (I synchro	Type rm "data ts usage ng is con arameter ated with ggested sted rem tively, re ed" by "a sages o <i>Remedy</i> the follow ervice in DDMP) e onizatior	delay m here it s isistent v which h n it. to have edy is a eplace in a valid tin f the terr ving para terface p event, wh		MP)" appear an event that in most place e values - nor n in the TSSI ich hopefully ta delay mea otocol frame stent meanir aragraph of S with respect t	at can be do as. But in 9 t as an event subclause captures the was detection 90.4.2: to a data do SFD or the	etected, and this 0.4.3.1.1 it is defined int that has a time e, 90.4.2. The ne intent of using this point (DDMP) was ted" and ensure that elay measurement e first symbol of a time
							Rephra	ase othe	r text as	necessary.			
							Proposed F	Respons	е	Response Status	w		
							PROPO	OSED A	CCEPT	IN PRINCIPLE.			
							The DE detecte		iot an ev	ent that is detected. D	DMP is simp	ly a locatio	n in a packet that is
							packet the pac	is meas cket. The	ured usi DDMP	agraph after the first p ng a specific point, the is either the beginning the packet, as select	e data delay i g of the SFD	measurem or the begi	ent point (DDMP), in nning of the first

C/ 90 SC 90.4.3.1

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

I P <b>51</b>	L <b>49</b>	# 447	C/ 90	SC 90.4.3.1.	1 P5	2 L 20	# 449	
Cisco			Ran, Adee		Cisco	)		
Comment Status D			Comment T	ype E	Comment Status	D		bucket
			SFD, or	the beginning	of the first symbol aft	er the SFD (see 4	5.2.3.69a), of the packe	
			This is a	a very long and	complex sentence.			
	), the existing inte	rface has "SFD" as a						
RX.indication primitive in 90	).4.3.2.1.		"indicat	ing the number	of bits of dynamic tra			
•							r the SFD or the first sy	mbol
line to TS_TX.indication(DD	MP, MM, PDDPD	).						
ion accordingly.			PROPC	SED ACCEPT				
Response Status W			C/ 90	SC 90.4.3.1.	1 P5	2 L 21	# 450	
			Ran, Adee		Cisco	)		-
P 52	L 19	# 448	Comment T	ype TR	Comment Status	D		BT
Cisco						11. H. (1. 11		
Comment Status D					e, so this should be "b	oit times" (bit time o	or BT has a definition	
32768 to +32767 in two's co	mplement format'	1	1.4.100	).				
ned in an abstract manner ar	nd there is no nee	d to specify a format	Also in RX_NU	the descriptions	s of TX_NUM_UNIT_ NGE (90.5.4).	CHANGE (90.5.3)	and	
gnments or the TX_NUM_UN	NIT_CHANGE inte	erface). Compare to						
erated values for which the "	formats" are neve	i specilieu.		-	f bits of dynamic tran	smit path data dela	ay" to "the dynamic tra	nsmit
erated values for which the "	formats" are neve	a specified.	Change	-		smit path data dela	ay" to "the dynamic tra	nsmit
erated values for which the "	formats" are neve	n specinieu.	Change data pa	e "the number o th delay in bit ti	mes (BT) <sup>"</sup> .		ay" to "the dynamic tra	nsmit
erated values for which the " ement format" in both places		n specified.	Change data pa Apply a	e "the number o th delay in bit ti similar change	mes (BT) <sup>"</sup> . in 90.5.3 and 90.5.4		ay" to "the dynamic tra	nsmit
ement format" in both places Response Status W		n specified.	Change data pa Apply a Proposed R	e "the number o th delay in bit ti similar change Response	mes (BT) <sup>"</sup> .		ay" to "the dynamic tra	nsmit
ement format" in both places		n specified.	Change data pa Apply a Proposed R PROPC	<ul> <li>"the number o th delay in bit ti similar change</li> <li>sesponse</li> <li>SED ACCEPT</li> <li>to "the numbe</li> </ul>	mes (BT) <sup>*</sup> . in 90.5.3 and 90.5.4 <i>Response Status</i> IN PRINCIPLE.	w	ay" to "the dynamic tran	
	Comment Status       D         imitive is being changed to T         rameters in the subsequent p         akes more sense because c         arguments appear first. Also         eter.        RX.indication primitive in 90         line to TS_TX.indication(DD         ion accordingly.         Response Status         M	Comment Status       D         imitive is being changed to TS_TX.indication(I         rameters in the subsequent paragraphs is DDN         akes more sense because conventionally (in r         arguments appear first. Also, the existing interester.	Comment Status       D         imitive is being changed to TS_TX.indication(MM, DDMP, PDDPD) rameters in the subsequent paragraphs is DDMP, MM, and then         akes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a eter.	Comment StatusDComment Timitive is being changed to TS_TX.indication(MM, DDMP, PDDPD) rameters in the subsequent paragraphs is DDMP, MM, and then"indicat SFD, or generatakes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a eter.This is Suggestedf Change "indicat the beg after the Proposed RRX.indication primitive in 90.4.3.2.1.Proposed R (Change "indicat the beg after the DIne to TS_TX.indication(DDMP, MM, PDDPD). ion accordingly.PROPCOResponse StatusWCisco Comment StatusCiscoComment StatusD32768 to +32767 in two's complement format med in an abstract manner and there is no need to specify a format the or the TX NUMA UNIT. CLUANCE interface) Comment to	Comment Status DComment TypeEimitive is being changed to TS_TX.indication(MM, DDMP, PDDPD) ameters in the subsequent paragraphs is DDMP, MM, and then"indicating the number SFD, or the beginning generated the primitiveakes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a ster."indication the beginning generated the primitiveRX.indication primitive in 90.4.3.2.1.This is a very long and SuggestedRemedy Change the quoted ser "indicating the number 	Comment Status D         imitive is being changed to TS_TX.indication(MM, DDMP, PDDPD)         imitive is being changed to TS_TX.indication(MM, DDMP, MM, and then         akes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a tetr.         RX.indication primitive in 90.4.3.2.1.         Ine to TS_TX.indication(DDMP, MM, PDDPD).         ion accordingly.         Response Status W         Cisco         Comment Status D         32768 to +32767 in two's complement format"         red in an abstract manner and there is no need to specify a format	Comment Status D         imitive is being changed to TS_TX.indication(MM, DDMP, PDDPD)         ameters in the subsequent paragraphs is DDMP, MM, and then         akes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a ter.         RX.indication primitive in 90.4.3.2.1.         Ine to TS_TX.indication(DDMP, MM, PDDPD).         ion accordingly.         Response Status W         Cisco         Comment Status D         Signed to tsatus D         ''         Cisco         Comment Status D         ''         Consco         Comment Status D         ''         Coloco	Comment Status D         imitive is being changed to TS_TX.indication(MM, DDMP, PDDPD)         ameters in the subsequent paragraphs is DDMP, MM, and then         akes more sense because conventionally (in most programming arguments appear first. Also, the existing interface has "SFD" as a ter.         RX.indication primitive in 90.4.3.2.1.         Ine to TS_TX.indication(DDMP, MM, PDDPD).         ion accordingly.         Response Status W         Comment Status D         Comment Status D         Status D         Status D         Comment Status D         Status D         Status D         Consco         Comment Status D         Status D         Status D         Status D         Status D

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

C/ 90	SC 90.4.3.1.1	P 52	L 26	# 431	CI 90	SC 90.5.3	P 56	L 1	# 451
Dawe, Piers	s	Nvidia			Ran, Adee		Cisco		
Comment T	Гуре Е	Comment Status D			Comment T	ype ER	Comment Status D		
doesn't	match the other	is a puzzling name that give xMII signal names such as	TXD<63:0>, TXC	<7:0>, RXD<63:0>,	The edi "change		on "insert" does not require und	derlining the inse	erted text (unlike
		d TX_CLK. The draft says t DPD over the xMII to the R			Suggested	Remedy			
TS_TX.	indication. In the	e context of MDIO registers:	nearly all the reg	sisters in Table 45-293,	Clear th	ne underline fo	rmatting from subclauses 90.5	.3 (including the	title) and 90.5.4.
TimeSy	nc PCS capabilit	ty, mention "data delay", usu	ually in the bit na	me - except this one.	Proposed F	esponse	Response Status W		
SuggestedF	•				PROPO	SED ACCEP	Т.		
Change	TX_NUM_UNIT	nes that fit with the other xM CCHANGE to TX_DDEL;	II signals, for exa	ample:	CI 90	SC 90.5.3	P 56	L11	# 452
		CHANGE to RX_DDEL;			Ran, Adee		Cisco		
Proposed R		Response Status W			Comment T	ype E	Comment Status D		bucke
C/ <b>90</b> Tse, Richar Comment T		P <b>54</b> Microchip Teo Comment Status D	L <b>6</b> chnology	# 467 bucket	path da codewo This is	ta delay (see 4 ord marker inse a very long an	n the gRS to the PHÝ experien 45.2.3.68), due to actions such ertion, and/or Idle rate adaptati d complex sentence. ears in 90.5.3 for TX_NUM_UN	as alignment m on insertion/rem	arker insertion,
"provide	es" should be "pr	ovide"			Suggested	Remedy			
SuggestedF	•					the quoted se			
Change	2						mber of bits of dynamic transm d from the gRS to the PHY, rel		
•		the dynamic data path dela bling the calculation of high			data de	lay (see 45.2.3	3.68), due to actions such as ir or codeword markers".		
			,		Change	90.5.3 TX_N	JM_UNIT_CHANGE according	gly.	
TimeSy									
					Proposed R	lesponse	Response Status W		
TimeSy to "These	signals provide t	he dynamic data path delay bling the calculation of high				esponse SED ACCEP	,		
TimeSy to "These	signals provide t /nc Client for ena						,		

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

CI 90 SC 90.5.3 Page 7 of 11 2/23/2022 8:30:02 AM

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

Points are usually in space, instants are in time. So "data delay measurement point" sounds like the place where the data delay is measured (e.g. the MDI or xMIII). The thing that is timed as it passes the MDI should have a different name. data delay measurement instant (but that could be taken as the time when the thing passes the point)? Also, I wondered if the phrase is being used with two meanings, the event and its time. <i>SuggestedRemedy</i> If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point is implementation dependent, and does not change when the PCS is not at reset or power down", or other language to that effect. No changes to the draft needed. No changes to the draft	Comment Type       E       Comment Status       D       bucket         Points are usually in space, instants are in time. So 'data delay measurement point''       Sunds like the place where the data delay is measurement point''       The data delay measurement marker'         sounds like the place where the data delay measurement instant (but that could be taken as the time when the thing passes the point)?       It is not stated whether this choice is constant or can change dynamically. Iv it is constant once the PCS is configured and enabled, but without stating lik, in plementations will need to handle dynamic changes, which may never occ         SuggestedRemedy       If the asible, change 'data delay measurement point' to 'data delay measurement marker' and 'data delay measurement point' to 'data delay measurement marker' and 'data delay measurement point' to 'data delay measurement marker' and 'data delay measurement point' to 'data delay measurement marker' and 'data delay measurement point' to 'data delay measurement marker' and 'data delay measurement instant'' as appropriate.         Proposed Response       Response Status       W         PROPOSED REJECT.       The term has been heavily debated within the TF and DDMP was consented at the time. with no clear alternatives to consider at this time. In the context, 'Point' is the correct term because it refers to a location in the packet.       Response Status       W         No changes to the draft needed.       Comment Type       ER       Comment Type       FS         Or goes of Ce 90, SC 90,7       P59       L9       #         Ran, Adee	# 453		L <b>7</b>	P <b>59</b>	90.7	S	C/ <b>90</b>	34	# 43	L 14	P <b>58</b>		C 90.7	S	C/ 90
Points are usually in space, instants are in time. So "data delay measurement point" sounds like the place where the data delay is measurement name. data delay measurement instant (but that could that is time & MDI should have a different name. data delay measurement instant (but that could be taken as the time when the thing passes the point)? Also, I wondered if the phrase is being used with two meanings, the event and its time. Suggested/Remedy If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate. Proposed Response Response Status W PROPOSED REJECT. The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed. No changes to the draft needed.	Points are usually in space, instants are in time. So "data delay measurement point" sounds like the place where the data delay is measured (e.g. the MDI or xMII). The thing that is time as it passes the MDI should have a different name, data delay measurement event? data delay measurement marker? data delay measurement instant (but that could be taken as the time when the thing passes the point)? Also, I wondered if the phrase is being used with two meanings, the event and its time. SuggestedRemedy If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate. PROPOSED REJECT. The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed. No changes to the draft needed. No changes to the draft needed. How changes the term the draft needed. How changes the term the draft ne				Cisco		e	Ran, Ade		_		Nvidia			Piers	Dawe, Pi
sounds like the place where the data delay is measured (e.g. the MDI or XMII). The thing that is time the MDI should have a different name, data delay measurement instant (but that could be taken as the time when the thing passes the point)? Also, I wondered if the phrase is being used with two meanings, the event and its time. <i>SuggestedRemedy</i> If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate. <i>Proposed Response</i> <i>Response Status</i> <b>W</b> PROPOSED REJECT. The term has been heavity debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed. <b>K</b> (190 SC 90.7 P59 L9 # <u>195 L9 # 195 L9 # 1654</u> Ran, Adee Cisco <i>Comment Type</i> <b>ER</b> <i>Comment Status</i> <b>D</b> <i>bu</i> According to the style manual (18.1) "Within each subclause, notes should be numbered. <i>SuggestedRemedy</i> <b>K</b> (190 SC 90.7 P59 L9 # <u>1654</u> <b>K</b> (190 SC 90.7 P59 L9	sounds like the place where the data delay is measured (e.g. the MDI or xMII). The thing that is timed as it passes the MDI should have a different name. data delay measurement instant (but that could be taken as the time when the thing passes the point)? Also, I wondered if the phrase is being used with two meanings, the event and its time. SuggestedRemedy If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate.  Proposed Response Response Status W PROPOSED REJECT.  The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed.  Key proposed Response Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add the following statement: "The choice of the data delay measurement point in pleamentation dependent, and does not change until PCS is reset or power down", or other lange effect.  Cl 90 SC 90.7 P59 L9 # Ran, Adee Cisco Comment Type ER Comment Status D According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to the style manual (18.1) within each subclause, notes in 90.7 according to the style manual (18.1) within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered.				Comment Status D	т	Туре	Commen	bucket			ment Status D	Con	Е	nt Type	Commen
If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate. Proposed Response Response Status W PROPOSED REJECT. The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed. Suggested Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add the following statement: "The choice of the data delay measurement point is implementation dependent, and does not change when the PCS is not at reset or power down", or other language to that effect. Additionally or alternatively, make a similar change in 45.2.3.69a.1. Suggested Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add the following statement: "The choice of the data delay measurement point is implementation dependent, and does not change until PCS is reset or powered down." Cl 90 SC 90.7 P 59 L 9 # [454] Ran, Adee Cisco Comment Type ER Comment Status D bu According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered. Suggested Remedy Change "NOTE 1" and renumber all subsequent notes in 90.7 accordingly. Proposed Response Response Status W	If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate. Proposed Response Response Status W PROPOSED REJECT. The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet. No changes to the draft needed. No changes to the draft needed. No changes to the draft needed. No changes to the draft needed. Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add the following statement: "The choice of the data delay measurement point implementation dependent, and does not change until PCS is reset or power Cl 90 SC 90.7 P59 L9 # Ran, Adee Cisco Comment Type ER Comment Status D According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to the style manual (18.1) Response in 90.7 according to the style manual (18	I would assume t,	69a)" dynamical ithout statir	ee 45.2.3.69a) an change dyna bled, but withou	first symbol after the SFD (se r this choice is constant or ca PCS is configured and enab	D) or the fi d whether once the F	ter (S ot sta onsta	delim It is n it is c	The thing asurement that could	DI or xMII). <sup>.</sup> ta delay mea t instant (but	ured (e.g. the N erent name. da ay measuremer nt)?	e data delay is mea DI should have a d nt marker? data de hing passes the po	e where th sses the M neasurem when the	the place d as it pas a delay me the time dered if the	nds like is time nt? da aken a o, I wor	soun that is event be ta Also,
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PROPOSED REJECT.         The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet.         No changes to the draft needed.         Add "The choice of the data delay measurement point is implementation dependent, and does not change when the PCS is not at reset or power down", or other language to that effect.         Additionally or alternatively, make a similar change in 45.2.3.69a.1.         Proposed Response       Response Status W         PROPOSED ACCEPT IN PRINCIPLE.         Add the following statement: "The choice of the data delay measurement point is implementation dependent, and does not change until PCS is reset or powered down."         C/ 90       SC 90.7       P59       L9       # [454]         Ran, Adee       Cisco         Comment Type       ER       Comment Status D       but According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.         SuggestedRemedy       Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.	PROPOSED REJECT.         The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet.         No changes to the draft needed.         Add "The choice of the data delay measurement point is implementation dep does not change when the PCS is not at reset or power down", or other langue effect.         Add "The choice of the data delay measurement point is implementation dep does not change when the PCS is not at reset or power down", or other langue effect.         No changes to the draft needed.         No changes to the draft needed.         VI PROPOSED ACCEPT IN PRINCIPLE.         Add the following statement: "The choice of the data delay measurement point is reset or power         CI 90 SC 90.7       P59         Ran, Adee       Cisco         Comment Type       ER       Comment Status         According to the style manual (18.1) "Within each subclause, notes should be sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy         Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to the style manual change in 90.7 according to the style manual change in 90.7 according to the style manual subsequent notes in 90.7 according to the style manual (18.1) "Within each subclause, notes in 90.7 according to "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to "NOTE" to "NOTE 1" and renumber all subseq															
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Proposed Response       Response       Response Status       W         No changes to the draft needed.       PROPOSED ACCEPT IN PRINCIPLE.       Add the following statement: "The choice of the data delay measurement point is implementation dependent, and does not change until PCS is reset or powered down."         C/ 90       SC 90.7       P59       L9       # 454         Ran, Adee       Cisco       Comment Type       ER       Comment Status       D       bu         According to the style manual (18.1)       "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy       Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.         Proposed Response       Response       Response Status       W	Proposed Response       Response Status       W         No changes to the draft needed.       PROPOSED ACCEPT IN PRINCIPLE.       Add the following statement: "The choice of the data delay measurement point implementation dependent, and does not change until PCS is reset or power         C/ 90       SC 90.7       P 59       L 9       #         Ran, Adee       Cisco         Comment Type       ER       Comment Status       D         According to the style manual (18.1)       "Within each subclause, notes should be sequentially". The first newly inserted NOTE is not numbered.         SuggestedRemedy       Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 access		69a.1.	e in 45.2.3.69a.	ively, make a similar change	r alternativ	onally	Addit				sider at this time. I	tives to co	ır alternati	no cle	with r
Add the following statement: "The choice of the data delay measurement point is implementation dependent, and does not change until PCS is reset or powered down."         Cl 90       SC 90.7       P 59       L 9       # 454         Ran, Adee       Cisco         Comment Type       ER       Comment Status       D       but         According to the style manual (18.1)       "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy         Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.       Proposed Response       Response Status       W	Add the following statement: "The choice of the data delay measurement point implementation dependent, and does not change until PCS is reset or power         Cl 90       SC 90.7       P 59       L 9       #         Ran, Adee       Cisco         Comment Type       ER       Comment Status       D         According to the style manual (18.1) "Within each subclause, notes should be sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy         Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according				Response Status W	ise	Resp	Proposed				the packet.	a location	eters to a	ause it	beca
implementation dependent, and does not change until PCS is reset or powered down."  C/ 90 SC 90.7 P59 L9 # 454  Ran, Adee Cisco  Comment Type ER Comment Status D bu  According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.  SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.  Proposed Response Response Status W	implementation dependent, and does not change until PCS is reset or power <i>Cl</i> 90 <i>SC</i> 90.7 <i>P</i> 59 <i>L</i> 9 # Ran, Adee Cisco <i>Comment Type</i> ER <i>Comment Status</i> D According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered. <i>SuggestedRemedy</i> Change "NOTE 1" and renumber all subsequent notes in 90.7 according to "NOTE 1" and renumber all subsequent notes in 90.7 according to "NOTE".				IN PRINCIPLE.	ACCEPT	POSE	PRO				I.	raft neede	to the dra	change	No cl
Ran, Adee       Cisco         Comment Type       ER       Comment Status       D       but         According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy       Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.         Proposed Response       Response Status       W	Ran, Adee       Cisco         Comment Type       ER       Comment Status       D         According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy         Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 according to the style manual subsequent notes in 90.7 according to the style manu															
Comment Type       ER       Comment Status       D       but         According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.       SuggestedRemedy       Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.       Proposed Response       Response Status       W	Comment Type ER Comment Status D According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 acc	# 454		L <b>9</b>	P 59	90.7	S	C/ 90								
According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly. Proposed Response Response Status W	According to the style manual (18.1) "Within each subclause, notes should b sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 acc				Cisco		Э	Ran, Ade								
sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly. Proposed Response Response Status W	sequentially". The first newly inserted NOTE is not numbered. SuggestedRemedy Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 acc	buck			Comment Status D	ER	Туре	Commen								
Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly. Proposed Response Response Status W	Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 acc	be numbered														
Proposed Response Response Status W						ly	dRem	Suggeste								
		ccordingly.	notes in 90.	bsequent notes	OTE 1" and renumber all sub	E" to "NO	ge "N	Chan								
PROPOSED ACCEPT.	Proposed Response Response Status W				Response Status W	ise	Resp	Proposed								
	PROPOSED ACCEPT.				г.	ACCEPT.	POSE	PRO								

CI 90 SC 90.7

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

CI 90	SC 90.7	P <b>59</b>	L <b>31</b>	# 455	CI 90	SC 90.7		P60	L1	# 469
Ran, Adee	1	Cisco			Tse, Richard	I	Ν	/licrochip Tee	chnology	
Comment T	Type ER	Comment Status D		bucket	Comment Ty	pe T	Comment Sta	atus D		
functior	ns, etc. but not i	and for "transmit" is common in the text. "Transmit" is used another comment).					from D2.1, we sho n refering to PHY I		otential controver	sy by avoiding use of
		,			There is	another insta	ance of "multi-lane	" on line 6 of	f page 60.	
	-	ext paragraph, line 40 should	be "receive".		SuggestedR	emedy				
Suggested					Change					
Change	e "Tx" to "transn	nit" and "Rx" to "receive".								ID lanes have differen
Proposed F	Response	Response Status W			to	encies such t	hat their alignmer	it markers ap	opear	
PROPO	OSED ACCEPT	•			"Lane sl					the PMA/PMD lanes
C/ 90	SC 90.7	P <b>59</b>	L 48	# 468	have dif	erent static la	atencies such that	their alignm	ent markers appe	ear"
se, Richa	ırd	Microchip Tec	hnoloav		Change					
comment T		Comment Status D			"If the tr	ansmit skew i o PHV ho ror	s not zero, then it ported as if the da	is recomments delay mea	nded that the trai	nsmit path delay for a
the terr	m "mutli-" when	rom D2.1, we should avoid po refering to PHY lanes. nce of "multi-lane" on line 52 c		sy by avoiding use of	PHY wit	n multiple lan		if the data d		nsmit path delay for a ont point departed"
Suaaestedi	Remedv				Proposed R		,			
Change "The re betwee	e	i-lane PHY is expected to incl	ude a buffer to co	ompensate for skew	•	SED ACCEP	т.	P 60 Disco	L 53	# 456
Change "The re betwee to	e eceiver of a mult en the lanes."				PROPO C/ 90	SED ACCEP	т.	P <b>60</b> Disco	L 53	# 456
Change "The re betwee to "The re skew b Change "The re measure to	e eceiver of a mult en the lanes." eceiver of PHY w between the lane e eceive path data rement point arr	with multiple lanes is expected es." delay for a multi-lane PHY is ived at the MDI input on the la	to include a buff reported as if the ine with the sma	fer to compensate for e data delay llest buffer delay."	PROPO C/ 90 Ran, Adee Comment Ty "it is rec insertior xMII/AU	SED ACCEP SC 90.7 pe E ommended to /removal, and " tence is diffic	T. Comment Sta b, when possible, a d/or codeword ma	P 60 Cisco atus D avoid Idle ins rker insertior	sertion/removal, a n/removal in the s	buck
Change "The re betwee to "The re skew b Change "The re measur to "The re	e eceiver of a mult en the lanes." eceiver of PHY we between the lane e eceive path data rement point arr eceive path data	with multiple lanes is expected s." delay for a multi-lane PHY is ived at the MDI input on the la delay for a PHY with multiple	to include a buff reported as if the ane with the smallanes is reported	fer to compensate for e data delay llest buffer delay." d as if the data delay	PROPO C/ 90 Ran, Adee Comment Ty "it is rec insertior xMII/AU This ser	SED ACCEP SC 90.7 pe E ommended to /removal, and " tence is diffic	T. Comment Sta b, when possible, a d/or codeword ma	P 60 Cisco atus D avoid Idle ins rker insertior	sertion/removal, a n/removal in the s	<i>buck</i> alignment marker sublayers below the
Change "The re betwee to "The re skew be Change "The re measur to "The re measur Proposed F	e eceiver of a mult en the lanes." eceiver of PHY w between the lane e eceive path data rement point arr eceive path data rement point arr Response	vith multiple lanes is expected ss." delay for a multi-lane PHY is rived at the MDI input on the la delay for a PHY with multiple rived at the MDI input on the la <i>Response Status</i> <b>W</b>	to include a buff reported as if the ane with the smallanes is reported	fer to compensate for e data delay llest buffer delay." d as if the data delay	PROPO Cl 90 Ran, Adee Comment Ty "it is rec insertior xMII/AU This ser possible SuggestedR Change	SED ACCEP SC 90.7 pe E ommended to /removal, and " tence is diffic emedy to "it is recom	T. Comment Sta o, when possible, a d/or codeword ma cult to parse. The o	P 60 Disco atus D avoid Idle ins rker insertior usage of slas insertion and	sertion/removal, a n/removal in the s shes in text shoul d removal of Idle	<i>bucl</i> alignment marker sublayers below the Id be avoided when s, alignment markers,
"The re betwee to "The re skew b Change "The re measur to "The re measur Proposed F	e ecceiver of a mult en the lanes." ecceiver of PHY w between the lane e ecceive path data rement point arr ecceive path data	vith multiple lanes is expected ss." delay for a multi-lane PHY is rived at the MDI input on the la delay for a PHY with multiple rived at the MDI input on the la <i>Response Status</i> <b>W</b>	to include a buff reported as if the ane with the smallanes is reported	fer to compensate for e data delay llest buffer delay." d as if the data delay	PROPO Cl 90 Ran, Adee Comment Ty "it is rec insertior xMII/AU This ser possible SuggestedR Change	SED ACCEP SC 90.7 pe E ommended to /removal, and " tence is diffic emedy to "it is recom eword market	T. Comment Sta b, when possible, a d/or codeword ma cult to parse. The t	P 60 Cisco atus D avoid Idle ins rker insertion usage of slas insertion and below the x	sertion/removal, a n/removal in the s shes in text shoul d removal of Idle	buck alignment marker sublayers below the Id be avoided when s, alignment markers,

C/ 90 SC 90.7

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

CI 90	SC 90.8	P 62	<i>L</i> 1	# 457	C/ 90A	SC 90A.3	P66	L1	# 460
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment T	Гуре Е	Comment Status D		bucket	Comment T	/pe <b>т</b>	Comment Status D		
The PIC	CS subclause ap	opears without any editorial ir	nstruction.		Here "b	tes" but on lin	e 46 "octet". "Octet" is used r	more often in 802	2.3.
As this	is an amendme	nt that modifies the existing (	Clause 90 there	is no need to include	SuggestedF	emedy			
the full	PICS. Instead, o	only the changes to the PICS	relative to the b	ase document should	Change	"bytes" to "oc	tets".		
be inclu clauses		ial instructions, as done in ot	her amendment	s that modify existing	Proposed R	esponse	Response Status W		
SuggestedF					PROPC	SED ACCEPT	Г.		
	-	d subclauses 90.8.1, 90.8.2,	and 90.8.4.		C/ 90A	SC 90A.3	P66	L 39	# 461
A .1.1				DY	Ran. Adee		Cisco		
		tion in 90.8.3 to modify items	15_1X and 15	_KX.	Comment T	vpe TR	Comment Status D		
Proposed R	Response DSED ACCEPT.	Response Status W					FEC for Ethernet rates 5G an	d 2.5G. FEC exis	sts in 2.5GBASE-T/T
PROPU	JSED ACCEPT.					- , ,	t the T1 PHYs have no PCS	,	
C/ 90A	SC 90A.2	P 65	L <b>21</b>	# 458			hat do not include FEC at all relevant only for 2.5GBASE-T		
Ran, Adee		Cisco			SuggestedF		,		
Comment T	Type TR	Comment Status D				-	es" to "For 2.5GBASE-T or 5	GBASE-T".	
		ative term. The "old" clause §							
some a applicat	•••	I the "new" could be consider	ed not accurate	enough for other		er adding "for o ion/merging".	ther PHYs at these speeds the	iere is no PCS la	ine
					Proposed R	00	Response Status W		
		uses the term "'sub-nanoseco m here instead of "high accu		ption. It would be more	,	,	IN PRINCIPLE.		
SuggestedF	Remedy				Change	"For these rat	es" to "For 2.5GBASE-T or 5	GBASE-T".	
Change	e "high accuracy	" to "sub-nanosecond" acros	s annex 90A, wi	th editorial license.	Ū				
Proposed R	Response	Response Status W							
PROPC	OSED ACCEPT.								
C/ 90A	SC 90A.2	P 65	L 28	# 459					
Ran, Adee		Cisco							
Comment T	Type TR	Comment Status D							
"physica	al layer device (	PHY)" - "Physical Layer" is a	lways capitalized	d.					
SuggestedF	Remedy								
Change	e to "Physical La	ayer device (PHY)".							
Proposed R	Response	Response Status W							

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 90A SC 90A.3 Page 10 of 11 2/23/2022 8:30:02 AM

CI 90A	SC 90A.4	P 67	L <b>5</b>	# 462	C/ 90A	SC 90A.5.3	P 69	L	# 464
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment 7	Type ER	Comment Status D		BT	Comment Ty	pe E	Comment Status D		bucket
Using "Tx" and "Rx" as shorthand for "transmit" "and "receive" is common in names of					The usag	ge of slashes	in text should be avoided when	n possible.	
variables, signals, functions, etc. but not in the text. The full words are used in most of this draft and in the base document.						emedy			
Even though the shorthand is spelled out in the beginning of 90A.4, it is preferrable to avoid it and use the full words in this annex as well.					Change "If a PHY does not perform alignment marker, codeword marker, or Idle insertion/removal" to "If a PHY does not perform insertion or removal of alignment markers, codeword markers, or Idles".				
Suggestedl	Remedy				Proposed Re	esponse	Response Status W		
		and "Rx" in the text to "trans se terms where they are used			PROPO	SED ACCEP	Т.		
Delete	the parentheses	on lines 5-6.							
Proposed F PROPC	Response OSED ACCEPT	Response Status W							
CI 90A	SC 90A.5.1	P68	L <b>4</b>	# 463					
Ran, Adee		Cisco							
Comment 7	Type TR	Comment Status D		BT					
What d	loes "*(nanosec	onds/unit)" mean?							
It seem express		has units of nanoseconds. Bu	ut this format is	uncommon in such					
Also in	item vi and twic	e in 90A.5.2.							
Suggestedl	Remedy								
Change	e "T1 + PDDPD	(nanoseconds/unit)" to "T1 +	PDDPD ns".						
	atively, define t_I sions instead.	PDDPD as a value in ns corr	esponding to PI	DPD and use it in the					
Implem	nent here and in	item vi and the two instance	s in 90A.5.2.						
Proposed F	Response	Response Status W							
	OSED ACCEPT	IN PRINCIPLE.							
	e "T1 + PDDPD	(nanoseconds/unit)" to "T1 -	PDDPD × xMI	bit time".					

C/ 90A SC 90A.5.3