IEEE P802.3cx D0.5 ITSA Task Force 1st Task Force review comments

C/ 9	SC 9.4.3.3.2	P 56	L 38	# 21	C/ 45	SC 45.2.1.1	46 P30	L11	# 27
Tse, Rich	nard	Microchip Te	chnology		Lv, Jingfei		Huawe	ei -	
Commen	t Type TR	Comment Status X			Comment	Type TR	Comment Status	x	
Conc	lition for generation	n of Tx_num_blk_change ne	eds to be describ	ed	IEEE 8	302.3bf has bee	n combined into a full v	rersion of IEEE 802.	3, and when IEEE 802.3cx
Suggeste	edRemedy				802.3	isned and after	some time, IEEE 802.3	scx could be merged	into another version of
Also	need to update na	me of Tx_num_blk_change	to Tx_num_unit_	change.	002.01				
Tv n	um unit ohongo ir	apparated for every Tx xM	lword It indiaat	as what the change in	So, it c	could be not sui	table to use 802.3bf or	802.3cx.	
the T	x PHY's path data	delay will be due to AM inse	ertion, CWM inse	rtion, and/or Idle rate	Suggested	lRemedy			
adap Tx_n +327	tation insertion/ren um_unit_change is 67.	noval [®] for the xMII word. s a 16-bit signed integer, wh	ose value ranges	from -32768 to	Propos and IE	se that the IEEE EE 802.3cx cou	802.3bf could be replaid be replaced with "the	aced with "the clause e clause 90 of IEEE	90 of IEEE 802.3-2018", 802.3-20xx"
Proposed	d Response	Response Status O			If this i Clause	is accpeted, nee e 45.	ed to do the same chan	ge for the table and	other sub-clauses of
					Proposed	Response	Response Status	0	
CI 9	SC 9.4.3.4.2	P 57	L 6	# 25					
Tse, Rich	nard	Microchip Te	chnology		C/ 45	SC 45 2 1 1	17 P31	/ 8	# 28
Commen	t Type TR	Comment Status X			Ly lingfoi				" 20
Cond	lition for generation	n of Rx_num_blk_change ne	eds to be describ	bed	Commont		Commont Status	• •	
Suggeste	edRemedy				How to	confirm the se	ts of registers to be val	n id based on table 44	5-110
Also	need to update na	me of Rx_num_blk_change	to Rx_num_unit_	change.	110W IC				5110.
Rx_n the R adap Rx_n	um_unit_change i tx PHY's path data tation insertion/ren um_unit_change i	s generated for every Rx xM delays was due to AM inem noval" for the Rx xMII word. s a 16-bit signed integer, wh	II word. It indicat noval, CWM remo ose value ranges	es what the change in wal, and/or Idle rate from -32768 to	My und 1.1804 registe invalid Hone t	derstanding is, i 4 are valid; othe er 1.1800.14 is (f the register 1.1800.15 wise if the gister 1.180), the registers 1.1809 a	i is 0, the registers 1 0.15 is 1, these regi and 1.1810 are valid	.1801, 1.1802, 1.1803 and sters are invalid. If the ; otherwise they are
Proposed	d Response	Response Status			Suggester	Remedy			
					Propos	se to clarify "bot	h sets of registers are a	valid (see Table 45-	110)"
					1.000	so to oldring DOI	in solo or registers are		

Proposed Response Response Status **0**

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 45 SC 45.2.1.147

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C/ 45	SC 45.2.1.147	P 31	L10	# 29	C/ 45	SC 45.2.3.66	P 36	L15	# 31
Lv, Jingfei		Huawei			Lv, Jingfei		Huawei		
Comment	Type TR	Comment Status X			Comment	Type TR	Comment Status X		
Based not inc	on my understand luded.	ding, the sentence means,	the correspondin	g value is invalid, but	"PCS o clear.	does not support	t or support multi-PCS lane p	bath data delay m	nechanism" are not
Propos	se to rephrase this	s sentence.			My une lane pa	derstanding is, th ath data delay"	nis register will indicate whet	her PCS support	the report of multi-PCS
Propos	se to change				Suggested Propos	<i>Remedy</i> se to change as,			
"then t data de	he corresponding elay"	value is not included in the	maximum PMA	PMD transmit path	0 = PC 1 = PC	S does not supp S supports the i	port the report of multi-PCS I report of multi-PCS lane path	ane path data de 1 data delay	lay
as					Proposed	Response	Response Status 0		
"then t	he maximum PMA	A/PMD transmit path data d	elay is not provid	ded."					
lf this i clause	s accepted, need s of Clause 46	to do the same change for	the next paragra	ph and other sub-	C/ 45 Lv. Jinafei	SC 45.2.3.67	Р 37 Нuawei	<i>L</i> 1	# 32
Proposed I	Response	Response Status O			Comment The st	<i>Type</i> TR atus of PCS laye	Comment Status X er should be bit 2 in Register	3.1 (see 45.2.3.2	2.7)
Cl 45	SC 45.2.2.21	P33	L 43	# 30	Suggested	Remedy			
Lv, Jingfei		Huawei			Propos	se to change			
Comment The st	<i>Type</i> TR atus of WIS laver	Comment Status X should be bit 2 in Register	2.1 (see 45.2.2.2	22)	"bit 2 i	n Register 1.1 (s	ee 45.2.1.2.4)"		
Suggested	Remedy)	as				
Propos	se to change				"bit 2 i	n Register 3.1 (s	ee 45.2.3.2.7)"		
"bit 2 ii	n Register 1.1 (se	e 45.2.1.2.4)"			Same	change for Clau	se 45.2.3.68		
as					Proposed	Response	Response Status O		
"bit 2 ii	n Register 2.1 (se	e 45.2.2.2.2)"							
Same	change for Clause	e 45.2.2.2.22							
Proposed I	Response	Response Status 0							

Comme	ents Received		IEEE P802.3	cx D0.5 ITSA Task Fo	rce 1st Tasl	k Force	e review	comments			
CI 45	SC 45.2.3.68a	P38	L 43	# 33	C/ 45	SC 4	5.2.4.29	P 40	L 6	# 34	_
Lv, Jingfei		Huawei			Lv, Jingfei			Huawei			
Comment	Type TR	Comment Status X			Comment	Туре	TR	Comment Status X			
The co (timest	onfiguration of 3.18 tamp reference po	313.13 (timestamp referenc int at the first symbol after	e point at SFD) a the SFD) can not	and 3.1813.12 be 1 at the same time.	The st Suggested	atus of P <i>IRemedy</i>	PHY XS tra	ansmit layer should be bit 2	in Register 4.1	(see 45.2.4.2.7)	
Propos	se to add a note at	t the end.			Propos	se to cha	ange				
Suggested Propos	Remedy se to add one sent	ence at the end.			"bit 2 i	n Registe	er 1.1 (see	e 45.2.1.2.4)"			
"Note, Proposed I	the configuration of Response	of Register 3.1813.12 and 3 <i>Response Status</i> O	8.1813.13 can no	t be 1 at the same time.	as "bit 2 i <i>Proposed</i>	n Registe Respons	er 4.1 (see	e 45.2.4.2.7)" Response Status 0			
C/ 45	SC 45.2.3.68a	P 42	L 22	# 13			-				_
Tse, Richa	ard	Microchip Te	chnology		Cl 45	SC 4	5.2.4.30	P 41	L 6	# 35	
Comment	Type TR	Comment Status X			Lv, Jingfei			Huawei			
"timest	tamp reference po	int" should be "message tir	nestamp point"		Comment	Туре	TR	Comment Status X			
Suggested	Remedy				The st	atus regi	ster of PH	IY XS receive layer is not fo	und.		
This ch The reg -from -from symbo	nange also applies gister names in th "Timestamp refer "Timestamp refer I after SFD"	s to the descriptions of the r e Table should be changed ence SFD" to "Message tin ence, first symbol after SFI	egisters in Table as follows: nestamp point, S D" to "Message ti	45-237a. FD" imestamp point, first	Need to Suggested Proposed	to double <i>IRemedy</i> se to che	e check. , eck the sta	tus register of PHY XS rece	eive layer.		
Proposed I	Response	Response Status O			Toposed	Respons					
					C/ 45	SC 4	5.2.5.29	P 42	L 45	# 36	Ī
					Lv, Jingfei			Huawei			
					<i>Comment</i> The st	<i>Type</i> atus regi	TR ister of DT	Comment Status X E XS transmit layer is not fe	ound.		

Need to double check.

SuggestedRemedy

Propose to check the status register of DTE XS transmit layer.

Proposed Response Response Status **O**

C/ **45** SC **45.2.5.29**

Comments Receive	d	IEEE P802.3	cx D0.5 ITSA Task Fo	orce 1st Tas	sk Ford	ce review	comments			
C/ 45 SC 45.2.5.3	0 P43	L 45	# 37	C/ 90	SC	90.4.3.1.1	P5	1	L 25	# 40
Lv, Jingfei	Huawei			Lv, Jingfe	ei		Huav	/ei		
Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Status	Х		
The status of DTE XS	receive layer should be bit 2	in Register 5.1 (s	ee 45.2.5.2.7)	Since TS_T	802.3c X.indica	x includes t ation include	the first symbol afte e the detection of th	r SFD as a ti e first symbo	imestamp gen ol after SFD?	eration point. Should
SuggesteaRemeay				Suggeste	dReme	dy				
Propose to change				Propo	ose to di	iscuss this (comment.			
"bit 2 in Register 1.1 (see 45.2.1.2.4)"			Proposed	Respo	nse	Response Status	0		
as										
"bit 2 in Register 5.1 (see 45.2.5.2.7)"			C/ 90	SC	90.4.3.1.1	P 5	5	L 25	# 14
Proposed Response	Response Status 0			Tse, Rich	ard		Micro	chip Techno	ology	
				Comment	Туре	TR	Comment Status	Х		
C/ 45 SC 45 2 6 1	5 P45	/ 38	# 38	SFD s	should b	be changed	to MTP, which star	nds for mess	age timestam	o point
	Низмеі	-00	" 00	Suggeste	dReme	dy				
Comment Type TR	Comment Status X			Also r	mention	in this sub-	-clause that the me	ssage timest	tamp point sel	ection is via the
The status register of	TC layer is not found.			SFD	oer regi	ster 3.1813	.12), which are des	cribed in 45.2	2.3.68a.	inst symbol after
Need to double check				Note	that I ar	n usina mv	suggested new na	ne. "Messad	ie timestamp r	point", for the register
SuggestedRemedy	•			bits in	subcla	use 45.2.3.	.68a.	,	,	····· , ··· ···· ··· ··· ··· ··· ···
Propose to check the	status register of TC layer.			Proposed	Respor	nse	Response Status	0		
Same for the Clause	45.2.6.16									
Proposed Response	Response Status 0			C/ 90	SC	90.4.3.1.2	P 5	5	L 39	# 15
				Tse, Rich	ard		Micro	chip Techno	ology	
	DE1	/ 12	# 20	Comment	Туре	TR	Comment Status	Х		
C/ 90 3C 90.4.2		213	# 39	SFD s	should b	be changed	to MTP, which star	nds for mess	age timestam	o point
Lv, Jinglei				Suggeste	dReme	dy				
Since TX_num_blk_cl may be also listed.	nange and RX_num_blk_chai	nge are newly def	ined, these two signals	Proposed	Respor	nse	Response Status	0		
SuggestedRemedv										
Propose to add										
"TX_num_blk_change RX_num_blk_change	; "									
Proposed Response	Response Status 0									
TYPE: TR/technical requir	ed ER/editorial required GR	/general required	T/technical E/editorial G/	/general				C/ 90		Page 4 of 10

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

C/ 90 SC 90.4.3.1.2

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C/ 90 SC 90.4.3.3 P56 L23 # 18	C/ 90 SC 90.4.3.3.1 P52 L33 # 41
Tse, Richard Microchip Technology	Lv, Jingfei Huawei
Comment Type TR Comment Status X	Comment Type TR Comment Status X
For lower Ethernet rates, the size of an Idle is smaller than one block. Thus, the unit of delay for this primitive should be smaller than one block.	If it's required to report how many blocks of delay change are to be performend, it possibly needs to define the time slot, from when to when.
SuggestedRemedy	SuggestedRemedy
It appears that the smallest unit that is needed is one xMII word. So, this primitive could be	Propose to discuss this comment.
renamed Tx_num_unit_change and "unit" could be described as being equal to the size of one xMII word	Proposed Response Response Status O
The change should be propagated throughout the document and to Figures 90-1 and 90-2.	
In 90.4.3.3.1, change "Tx_num_blk_change(BLK_CNT)" to	C/ 90 SC 90.4.3.3.1 P56 L34 # 20
"Tx_num_unit_change(UNIT_CNT)".	Tse, Richard Microchip Technology
In 90.4.3.3.1, change	Comment Type TR Comment Status X
"The BLK CNT parameter indicates how many blocks of delay change are to be performed	Idle rate adaptation can cause an idle to be either inserted or removed in the Tx PHY
in the Tx PHY (e.g., for AM insertion, CWM insertion, or Idle rate adaptation removal)."	SuggestedRemedy
to	As per my earlier comment, change
	"The BLK_CNT parameter indicates how many blocks of delay change are to be performed
"The UNIT_CNT parameter indicates how many units of delay change are to be performed in the Tx PHY (e.g., for AM insertion, CWM insertion, or Idle rate adaptation	in the Tx PHY (e.g., for AM insertion, CWM insertion, or Idle rate adaptation removal)."
insertion/removal), where one unit is equivalent to the size of one word at the xMII."	to
Proposed Response Response Status O	"The LINIT CNT peremeter indicates how many units of delay shange are to be performed
	in the Tx PHY (e.g., for AM insertion, CWM insertion, or Idle rate adaptation
C/ 90 SC 90.4.3.3 P56 L25 # 19	insertion/removal), where one unit is equivalent to the size of one word at the xMII."
Tse Richard Microchip Technology	Proposed Response Response Status O
Comment Type TR Comment Status X	
"TBD" needs to be replaced and be specific regarding the direction of the transfer	
SuggestedRemedy	
Change	
"This primitive defines the transfer of {TBD} between gRS and the TimeSync Client."	
to	
"This primitive defines the transfer of Tx PHY path data delay variation information from the gRS to the TimeSync Client."	
Proposed Response Response Status	

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 90 SC 90.4.3.3.1

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CI 90	SC 90.4.3.4	P 56	L 44	# 22	CI 90	SC 90.4.3.4.1	P 57	L1	# 24
Tse, Rich	ard	Microchip Te	chnology		Tse, Rich	ard	Microchip	Technology	
Comment	Type TR	Comment Status X			Comment	Type TR	Comment Status X		
For lo delay	wer Ethernet rate for this primitive	s, the size of an Idle is small should be smaller than one b	er than one bloc lock.	k. Thus, the unit of	Idle ra	ate adaptation can	cause an idle to be eith	er inserted or rem	oved in the Rx PHY
S <i>uggeste</i> It app	dRemedy ears that the sma	llest unit that is needed is or	ne xMII word. So	, this primitive could be	As pe	r my earlier comm	ent, change		
renam one xl The c	ned Rx_num_unit MII word. hange should be	_change and "unit" could be propagated throughout the d	described as be ocument and to	ng equal to the size of Figures 90-1 and 90-2.	"The I the R: to	BLK_CNT parame x PHY (e.g., for AN	ter indicates how many /I removal, CWM remov	blocks of delay ch al, or Idle rate ada	ange were performed in ptation insertion)."
In 90. "Rx_n In 90.	4.3.4.1, change um_unit_change 4.3.4.1, change	"Rx_num_blk_change(BLK_ (UNIT_CNT)".	CNT)" to		"The the R: insert	UNIT_CNT param x PHY (e.g., for AN ion/removal), when	eter indicates how many / removal, CWM remov re one unit is equivalent	y units of delay cha al, or Idle rate ada to the size of one	ange were performed in ptation word at the xMII."
"The I the R	BLK_CNT parame PHY (e.g., for A	eter indicates how many bloc M removal, CWM removal, c	ks of delay char or Idle rate adapt	ge were performed in ation insertion)."	Proposed	Response	Response Status O		
to					C/ 90	SC 90 4 4 1 1	P56	/ 1	# 16
"The l in the inserti	JNIT_CNT param Rx PHY (e.g., for on/removal) whe	eter indicates how many uni AM removal, CWM removal	ts of delay chan , or Idle rate ada	ge are to be performed ptation ord at the xMII "	Tse, Rich Comment	ard	Microchip Comment Status X	o Technology	
Proposed	Response	Response Status 0			SFD s	should be changed	to MTP, which stands	for message times	tamp point
					Suggeste	dRemedy			
C/ 90 Tse Rich	SC 90.4.3.4	P 56 Microchin Te	L46	# 23	Also r Times regist	mention in this sub stamp reference re er 3.1813.12), whi	-clause that the message gister bits (SFD per reg ch are described in 45.2	ge timestamp poin ister 3.1813.13 or 2.3.68a.	t selection is via the first symbol after SFD pe
Comment "TBD"	<i>Type</i> TR needs to be repl	Comment Status X aced and be specific regardi	ng the direction	of the transfer	Proposed	Response	Response Status O		
Suggeste	dRemedy				C/ 90	SC 90.4.4.1.2	P 56	L15	# <u>1</u> 7
Chang	ge				Tse, Rich	ard	Microchip	Technology	
"This	primitive defines	he transfer of {TBD} betwee	n gRS and the T	imeSync Client."	Comment SFD s	<i>Type</i> TR should be changed	Comment Status X to MTP, which stands	for message times	tamp point
to					Suaaeste	dRemedv		0	
"This gRS t	primitive defines o the TimeSync (the transfer of Rx PHY path o	data delay variat	on information from the	Droposed	Deenenee			
Proposed	Response	Response Status O			Proposed	Response	Response Status U		
TYPE: TR	/technical require	d FR/editorial required GR/	general required	T/technical E/editorial G/	neneral		Cl	90	Page 6 of 10

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 90
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 90.4.1.2
 5/10/2021 7:36:25 PM

 SORT ORDER: Clause, Subclause, page, line
 SC
 SC 90.4.1.2
 SC 90.4.1.2
 SC 90.4.1.2

Comr	ments Received	b	IEEE P802.3	cx D0.5 ITSA Task Fo	rce 1st Tas	k Force revie	ew comments		
C/ 90	SC 90.5	P 57	L 20	# 26	CI 90	SC 90.6	P54	L 41	# 44
Tse, Rid	chard	Microchip Te	chnology		Lv, Jingfei	i	Huawei		
Commen The 2 ne Suggest Ren TS_ thro The	nt Type TR TS_SFD_Detect_ eed to be renamed tedRemedy ame TS_SFD_Det MTP_Detect_RX, ughout the docume "SFD=DETECTED	Comment Status X TX and TS_SFD_Detect_RX to reflect the new symbol-after ect_TX and TS_SFD_Detect where MTP stands for messa- ent. D" events also need to be ren	functions in all cl er-SFD message _RX to TS_MTP_ age timestamp po amed to "MTP=D	auses and in Figure 90- timestamp point. _Detect_TX and int, in Figure 90-2 and DETECTED".	Comment Need Suggested Propo "1.180 Proposed	<i>Type</i> TR to add 3.1813 (<i>dRemedy</i> se to add 3.181 00, 2.1800, 3.18 <i>Response</i>	Comment Status X TimeSync PCS configuration re 3, e.g., 300, 3.1813, 4.1800, 5.1800 and Response Status 0	egister) d 6.1800"	
Propose	ed Response	Response Status O			C/ 90	SC 90.6	P 54	L 45	# 45
C/ 90	SC 90.5.1	P53	L 25	# 42	Lv, Jingfei	i	Huawei		
Lv, Jing <i>Comme</i> The clau	fei <i>nt Type</i> TR output of TS_SFD ise 90.5.1 define th	Huawei <i>Comment Status</i> X _Detect_TX function also inc le generation of TX_num_blk	ludes TX_num_b _change?	lk_change. Should the	Comment Need Suggested Propo	<i>Type</i> TR to add sub-nan <i>dRemedy</i> se to add the se	Comment Status X osecond registers for each laye ub-nanosecond registers of eac	r h layer	
Suggest Prop	tedRemedy	s comment.			Proposed	Response	Response Status O		
Propose	ed Response	Response Status O			Cl 90 Lv. Jinafei	SC 90.6	P 54 Huawei	L 5 1	# 46
CI 90	SC 90.5.2	P 53	L 40	# 43	Comment	Type TR	Comment Status X		
Lv, Jing	fei	Huawei			Need	to add sub-nan	osecond registers for each laye	r	
Comme The clau Suggesi Prop	nt Type TR output of TS_SFD ise 90.5.2 define th tedRemedy bose to discuss this	Comment Status X _Detect_RX function also inc e generation of RX_num_blk s comment.	cludes RX_num_t _change?	olk_change. Should the	Suggested Propo Proposed	dRemedy se to add the si Response	ub-nanosecond registers of eac Response Status O	h layer	
Propose	ed Response	Response Status O							

C/ 90 SC 90.6

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C/ 90	SC 90.7	P 56	L 38	# 47	C/ 90	SC 90.7	P 57	L 33	# 52			
Lv, Jingfe	ei	Huawei			Lv, Jingfei		Huawei					
Comment	Type TR	Comment Status X			Comment	Type TR	Comment Status X					
In ord delay RX_n	ler to make more of AM/CWM inse um_blk_change e	clear, propose to add one se rtion or removal is reported b events	ntence to indicat by the TX_num_t	e that, the dynamic olk_change and	"For e: associ data d	xample, the Time ated with the TS elay values repo	eSync Client may need to su S_SFD_Detect_TX function fr orted by	btract the value om the sum of th	of the delay ne minimum transmit			
Suggestee	dRemedy				inaiviaual MMD(s)"							
Propo	ose to add one ser	ntence at the end.			Based on the equation described in IEEE 1588-2008 Clause 7.3.4.2, the TX side should add the egressLatency, not subtract.							
TX nu	dynamic delay vai um blk change a	riance is represented and rep ind RX num blk change."	orted by the eve	ent	Suggested	lRemedy						
Proposed	Response	Response Status O			Propos	se to change the	e sentence as,					
<u></u>	SC 00 7	DEC	154	# 40	"For e associ	xample, the Time ated with the TS	eSync Client may need to ad S_SFD_Detect_TX function fr	d the value of th om the sum of th	e delay ne minimum transmit			
U Jingfo	3C 90.7	7 30 Huawoi	201	# 48	data d individ	elay values repo ual MMD(s)"	orted by					
Lv, Jiligie Comment					If the bar							
If the	transmit skew is r	minimized or ideally to zero	the effect of time	e error should be also		comment is acce	epted, change the word "add"	of Line 35 of pa	ige 57 to be "subtract".			
minim	nized or ideally to	zero.			Proposed	Response	Response Status 0					
Propo	ose to add senten	ces about the effect of time e	rror.									
Suggestee	dRemedy											
Propo	ose to add a phras	se after the sentence,										
"Trans for the	smit skew should e accuracy of Tim	thus be minimized, ideally to eSync Client".	zero, and this w	ould be an ideal case								
Proposed	Response	Response Status O										
C/ 90	SC 90.7	P56	L 52	# 49								
Lv, Jingfe	ei	Huawei										
Comment	Type TR	Comment Status X										
It see zero".	ms that the NOTE . So, it may be ina	E 4 does not aim to address t appropriate to refer to NOTE	he case "If the ti 4.	ansmit skew is not								
Suggestee	dRemedy											
Propo	ose to remove (se	e NOTE 4)										
Proposed	Response	Response Status 0										

C/ 90 SC 90.7

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			1.0.4	" = -						
C/ 90	SC 90.7	P57	L 34	# 53	C/ 90	SCS	90.7	P57	L 40	# 51
Lv, Jingfei		Huawei			Lv, Jingfei			Huawei		
Comment	Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
"For ex associa data de	kample, the Tim ated with the T elay values rep	neSync Client may need to sul S_SFD_Detect_TX function fro orted by	otract the value of the sum of th	of the delay e minimum transmit	For the point c will be	e case o leparted zero?	of NOTE I the MDI	4, if the transmit path delay is I output on the last-departing I	reported as if t ane, whether th	the message timestamp the effect of time error
individ	ual MMD(s)"				Suggested	Remedy	V			
In orde	er to reduce the	effect of variable latency, my	understanding is	to compensate the	Propos	se to dis	cuss this	s comment, and add clarificati	on based on m	eeting results.
mean	of the minimum	and maximum data delay ins	tead of the minir	num delay.	Proposed	Respon	se	Response Status O		
Suggested	Remedy									
Propos	se to change th	e sentence as,			CI 00	SC 0	0.7	Den	/ 22	# 50
""For e	example, the Tir	meSync Client may need to su	btract the value	of the delay	C/ 90	30 8	90.7		L 23	# 50
associa	ated with the T	S_SFD_Detect_TX function from the second s	om the mean of	the sum of the	Tse, Richa	ard T			nnology	
reporte	um transmit dat ad by	a delay values and the sum o	f the maximum t	ransmit data delay	Comment	Type	IR totion ob	Comment Status X	moon onding to	post-deadline
individ	ual MMD(s)"					ie adapi	lation she		mesponding to	AW/CWW Insenion
16 db in i		dife a similar way far line 20 s	have DV aida		Suggested	Remedy	У			
IT THIS I	s accepted, mo	baily a similar way for line 36 a	idout RX side.		Chang	e parag	raph fror	m		
Proposed I	Response	Response Status 0			"For a adapta path d	PHY that ation (e.g	at inserts g., remov	s alignment markers or codew ves Idles) to accommodate the rement starting point (the PTF	ord markers an AM or CWM i P message time	d performs rate nsertion, the transmit estamp point at the xMII
CI 90	SC 90.7	P 57	L 40	# 50	input)	should b	be adjust	ted to account for the AM or C	WM insertion a	and the corresponding
Lv, Jingfei		Huawei			rate ac	aptation	n that oc nent the	curs in the PHY (between the result is a transmit path data	xMII input and	the MDI output). Based
Comment	Type TR	Comment Status X			the AN	l or CW	'M inserti	ion and the corresponding rate	adaptation ha	d been performed
NOTE	4 is one specif	ic case that the transmit skew	is strictly additiv	e to any medium skew.	before	the Tx 3	xMII."			
Propos multila	se to move NO ⁻ ne transmitter.	TE 4 at the end of the paragra	ph addressing th	e lane skew on a	to					
Suggested	Remedy				"For a	PHY that	at inserts	s alignment markers or codew	ord markers ar	d/or performs rate
Propos	se to move NO	TE 4 at the end of line 2 of pag	ge 57, e.g.,		adapta point (the PTP	g., adds/ 9 messag	removes idles), the transmit p ge timestamp point at the xMII	input) should b	be adjusted to account
"For sp approp the MD	pecific cases where the second s	hen transmit skew is strictly ac he transmit path delay as if th last-departing lane"	dditive to any me e message time	dium skew, it is stamp point departed	for the (betwe transm Idle ac	AIM or (en the a hit path o Idition/re	MII inpu MII inpu data dela emoval h	sertion and any Idle addition/re it and the MDI output). Based ay measurement that appears had been performed before the	emoval that occ on this adjustm as if the AM or e Tx xMII."	eurs in the PHY nent, the result is a CWM insertion and any
Proposed I	Response	Response Status O			Proposed	Respon	se	Response Status O		

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

CI 90 SC 90.7

IEEE P802.3cx D0.5 ITSA Task Force 1st Task Force review comments

C/ 90	SC 90.7	P60	L 31	# 57	C/ 90	SC 90.7	P60	L38	# 55
Tse, Rich	hard	Microchip Te	chnology		Tse, Richa	ard	Microchip Te	chnology	
Comment Idle ra Suggeste Chan "For a adapt point for AN (betw path o corres to	t <i>Type</i> TR ate adaptation sh <i>dRemedy</i> ge paragraph from a PHY that removing tation (e.g., adds/ (the PTP messag M or CWM removing the MDI input data delay measu sponding rate ada	Comment Status X ould not be limited to those of m ves alignment markers or cod fremoves Idles), the receive p ge timestamp point at the xMI ral and the corresponding rate at and xMII output). Based on irrement that appears as if the aptation had been performed	eword markers a ath data delay n I output) should adaptation that this adjustment, AM or CWM re after the Rx xMI	post-deadline AM/CWM removal and/or performs rate heasurement ending be adjusted to account occurs in the PHY the result is a receive moval and the I."	Comment Idle ra inserti Suggested Chang "The c corres data d to "The c in the delay	Type TR ate adaptation s ion/removal dRemedy ge paragraph fi dynamic delay sponding rate a delay or the Tin dynamic delay TimeSync PC: registers."	Comment Status X should not be limited to those c rom variance of AM or CWM inserti idaptation is not to be included heSync PCS receive path data variance of AM, CWM, or Idle i S transmit path data delay or th	on or removal o in the TimeSync delay registers. nsertion or remo	post-deadline AM/CWM r that of the c PCS transmit path "
"For a adapt point for AN MDI ii delay additi <i>Proposed</i>	a PHY that removi tation (e.g., adds/ (the PTP messag M or CWM removi nput and xMII out measurement th on/removal had b <i>I Response</i>	ves alignment markers or cod removes Idles), the receive p ge timestamp point at the xMI ral and any Idle addition/remo tput). Based on this adjustme at appears as if the AM or CV been performed after the Rx x <i>Response Status</i> O	eword markers a ath data delay n I output) should val that occurs i nt, the result is a VM removal and MII."	and/or performs rate neasurement ending be adjusted to account n the PHY (between the a receive path data I any Idle	Proposed Cl 90 Lv, Jingfei Comment Should	Response SC 90.8.3 i Type TR d the TX_num_	Response Status O P59 Huawei Comment Status X _blk_change and RX_num_blk_	L26 _change events	# 54
					Suggested Propo	<i>aRemedy</i> ose to discuss t	his comment.		

Proposed Response Response Status **0**

CI 90 SC 90.8.3