Comments received

IEEE P802.3bf Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol comments

C/ 00 SC 0 P 0	L 0	# 53	C/ 00	SC 0		<i>P</i> 19	L 29	# 35	
lugh Barrass Cisco			Garner, G	,		Samsung			
Comment Type GR Comment Status X It is not clear whether the overall structure of th	is draft is intended		Comment			nment Status X 99.7, 99.8, 99.9, 99.9	010002 and 0	9 10 and its	
to reflect the intended structure of the finished p here are some general comments:			subcla		d be number	ed 90.7, 90.8, 90.9, 9			arly
It can be assumed that there will be (at least) o can call the "TimeSync Clause." Changes to Clause 30 and 45 must be made di			90.9,	ge 99.7, 99.8 90.9.1, 90.9	.2, 90.10, an	1, 99.9.2, 99.10, and d similarly for subclau i it should be renumb	uses of 90.10, res	pectively. In add	ition,
not need to be summarized in the TimeSync Cl						ce occurs on p.18, lin			u be
	ll af the DC alour s		Proposed	Response	Resp	oonse Status O			
It is useful to describe the generic changes to a within the TimeSync clause, however, the chan		S							
clauses (22, 35, 46, 81) must be made in the re			C/ 00	SC 0		P 19	L 31	# 37	
specific definitions can reference the generic de but certain aspects will be unique for each clau			Garner, G	eoffrey		Samsung			
Similarly, it is very useful to list the supported P	HYs and the		Comment	Туре ТБ	con	nment Status X			
requirements for each PHY in the TimeSync cla requirements that change or restrict PHY behave appropriate clause (and reflected in the approp	use, but specific optio vior must be placed in		99.7, 9	99.8, 99.9, 9	9.9.1, 99.9.2	indicated in the respe 2 (note that another c of 99.10 needs to be	omment indicates		
Cross-clause requirements and also "change c have been included in the past but have cause should be considered as "historical mistakes, n	d numerous problems		betwe and th	en the reference ne network n	ence plane (nedia, see 3.	ne parmameters that i.e., the boundary bet 14 of P802.1AS D6.7 surement plane, see	ween a port of a t	ime-aware syster	m ally
If operation is intended over XGMII (for 10Gb/s should be made regarding the effect of extension between two XMGIIs (i.e. should timestamping first XGMII or could it be performed at the "emb	on sublayers interpose be performed only at t		param they a param	nters have b are managen neters. In ar	een referred nent objects, ny case, they	ess and one for egres to as ingress and eg and it also has been need to be described seems to refer to the	ress latencies; it h indicated that the d in the appropria	has been indicate ey could be data s	sheet
uggestedRemedy									
Restructure the document with change instructi 22, 35, 46 and 81 - plus specific PHY clauses a		3	Suggested Suppl	-	al indicated i	n the comment above	e (i.e., the materia	al indicated in the	
Proposed Response Response Status 0			editor	s notes (and	d include the	objects that represer	nt the difference in	n time between th	
				Response		oonse Status O	. 0	0 //	

CI 00 SC 0

C/ 90 SC 90.1	P 15	L 1	# 39	C/ 90 SC 90.1	P 15	L 7	# 50
Ouellette, Michel	Huawei			Anslow, Peter	Nortel Networ	ks	
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
The optical support					al support for the", but many o be "optional" rather than "optica		addressed are not
SuggestedRemedy				SuggestedRemedy		u :	
replace "optical" with	"optional"			Change "optical" to	'optional"		
Proposed Response	Response Status O			Proposed Response	Response Status O		
	P 15	L 14	# 29				
Marris, Arthur	Cadence	L 14	# 29	C/ 90 SC 90.1	P 15	L 9	# 40
Comment Type T	Comment Status X			Ouellette, Michel	Huawei		
51	e to have a list of PHYs in the C	lause. It is unne	cossany and will soon	Comment Type E	Comment Status X		
be out-of-date.				Figure 90.6 cannot b	be found		
be out-of-date. SuggestedRemedy			Cessary and will Soon	Figure 90.6 cannot k SuggestedRemedy	be found		
SuggestedRemedy	fically, the optional TimeSync c 4.'			5			
SuggestedRemedy Delete the text 'Speci				SuggestedRemedy			
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4				SuggestedRemedy Is Figure 90.1 the pr	oper reference?		
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4	4.'			SuggestedRemedy Is Figure 90.1 the pr Proposed Response Cl 90 SC 90.1	oper reference?	L 9	# [36
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4 Proposed Response	4.'		e supported by the	SuggestedRemedy Is Figure 90.1 the pr Proposed Response	oper reference? Response Status O	L 9	# <u>36</u>
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4 Proposed Response	4.' Response Status O	apability may be		SuggestedRemedy Is Figure 90.1 the pr Proposed Response Cl 90 SC 90.1 Garner, Geoffrey Comment Type ER	oper reference? Response Status O P 15 Samsung Comment Status X	-	
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4 Proposed Response Cl 90 SC 90.1 Marris, Arthur	4.' Response Status O	apability may be	e supported by the	SuggestedRemedy Is Figure 90.1 the pr Proposed Response Cl 90 SC 90.1 Garner, Geoffrey Comment Type ER There is a reference	oper reference? Response Status O P 15 Samsung Comment Status X to "Figure 90.6". It appears this 90-1 that shows the gRS and Ti	s should be a re	ference to Figure 90-1
SuggestedRemedy Delete the text 'Speci PHYs identified in 90. Delete 90.4 Proposed Response C/ 90 SC 90.1 Marris, Arthur Comment Type T optical?	4.' Response Status O P 15 Cadence	apability may be	e supported by the	SuggestedRemedy Is Figure 90.1 the pr Proposed Response Cl 90 SC 90.1 Garner, Geoffrey Comment Type ER There is a reference (at least, it is Figure	oper reference? Response Status O P 15 Samsung Comment Status X to "Figure 90.6". It appears this 90-1 that shows the gRS and Ti	s should be a re	ference to Figure 90-1
SuggestedRemedy Delete the text 'Speci PHY's identified in 90. Delete 90.4 Proposed Response C/ 90 SC 90.1 Marris, Arthur Comment Type T	4.' Response Status O P 15 Cadence Comment Status X	apability may be	e supported by the	SuggestedRemedy Is Figure 90.1 the pr Proposed Response Cl 90 SC 90.1 Garner, Geoffrey Comment Type ER There is a reference (at least, it is Figure referred to in the ser	oper reference? Response Status O P 15 Samsung Comment Status X to "Figure 90.6". It appears this 90-1 that shows the gRS and Tintence).	s should be a re	ference to Figure 90-1

C/ 90 SC 90.1

Duellette, Michel	P 15 Huawei	L 21	# 41	C/ 90 SC 90.5.1 Ouellette, Michel	P 16 Huawei	L 3	# 43
Comment Type E of certain packets	Comment Status X			Comment Type E is not defined anywher	Comment Status X		
SuggestedRemedy the proposed architec current architecture de	cture provides initiation times of loes.	f "all" packets? T	his is what the		ork "anywhere" from the se <i>Response Status</i> 0	ntence	
We need to be consis	stent as this can be confusing for	or the reader and	designer.				
Proposed Response	Response Status O			C/ 90 SC 90.5.1 Marris, Arthur	P 16 Cadence	L 9	# 27
C/ 90 SC 90.5 Duellette, Michel	<i>P</i> 16 Huawei	L 10	# 47	Comment Type E Spelling 'prohibts'	Comment Status X		
indications and the fra	Comment Status X e figure and text if there is any c ames that arrive/depart to the M	MAC client.		SuggestedRemedy prohibits Proposed Response	Response Status O		
the MA_DATA.reques	at the TSSI indication are corre st and MA_DATA.indication prir be sufficient to meet the require	mitives? If not, th	en the TSSI	C/ 90 SC 90.5.2.1	P 17	L 6	# 30
SuggestedRemedy				Marris, Arthur	Cadence		
Juggesteurterneuy		here there could		Comment Type T	Comment Status X		
Discuss if there are si TS_RX.indication eve Such situation might p	ituations (eg., errored frame) w ent but the data is not sent to th pose some problems to externa indication and frame being trar	e MAC client eg. al timestamping p	rocess as there is no	Change "to be notified or to	event of transmission and	I/or reception of a	a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the	ent but the data is not sent to th pose some problems to externa	e MAC client eg. al timestamping p	rocess as there is no	to	event of transmission and thernet frame crosses the t		a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the Proposed Response	ent but the data is not sent to th pose some problems to externa indication and frame being trar <i>Response Status</i> O	e MAC client eg. al timestamping p nsmitted to the up	poper layers.	to			a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the Proposed Response	ent but the data is not sent to the pose some problems to externa indication and frame being tran	e MAC client eg. al timestamping p	rocess as there is no	to "to be notified when an E SuggestedRemedy			a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the Proposed Response C/ 90 SC 90.5.1 Duellette, Michel	ent but the data is not sent to the pose some problems to externa indication and frame being tran Response Status O P 15 Huawei Comment Status X	e MAC client eg. al timestamping p nsmitted to the up	poper layers.	to "to be notified when an E <i>SuggestedRemedy</i> as above	thernet frame crosses the :		a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the Proposed Response Cl 90 SC 90.5.1 Duellette, Michel Comment Type E outside of scope SuggestedRemedy	ent but the data is not sent to the pose some problems to externa indication and frame being tran Response Status O P 15 Huawei Comment Status X	e MAC client eg. al timestamping p nsmitted to the up	poper layers.	to "to be notified when an E <i>SuggestedRemedy</i> as above	thernet frame crosses the :		a new Ethernet frame"
Discuss if there are si TS_RX.indication eve Such situation might p 1 to 1 mapping of the Proposed Response Cl 90 SC 90.5.1 Duellette, Michel Comment Type E outside of scope SuggestedRemedy	ent but the data is not sent to the pose some problems to externa indication and frame being tran <i>Response Status</i> O <i>P</i> 15 Huawei <i>Comment Status</i> X cope" with "outside the scope"	e MAC client eg. al timestamping p nsmitted to the up	poper layers.	to "to be notified when an E <i>SuggestedRemedy</i> as above	thernet frame crosses the :		a new Ethernet frame"

C/ 90 SC 90.5.2.1

C/ 90 SC 90.5.2.1 Duellette, Michel	P 17 Huawei	L 7	# 44	Cl 90 SC Ouellette, Michel	90.5.3.1.1	<i>P</i> 17 Huawei	L 35	# 45
service promitives	comment Status X			Comment Type the "TS_SFD section.	E _Detect_T>	Comment Status X	ut only explained	d and shown in a later
SuggestedRemedy	imiti voo"			SuggestedReme	dv			
replace "promitives" with "pl Proposed Response Re	esponse Status O			Suggest to re in the a later		TS_SFD_Detect_TX function	on" from the sent	ence, as it is explained
				The text coul	d look like t	ne last paragraph of 90.5.3.	1.1	
C/ 90 SC 90.5.2.1 Anslow, Peter Comment Type E C	P 17 Nortel Networks comment Status X	L 7	# 51	asserted (SF	D = ONE), t	n take any of the following to he TimeSync Client is notifi wise, the value of SFD para	ied that a valid S	FD was detected by
typo - "promitives" SuggestedRemedy				C C		TS_SFD_Detect_TX is exp		
Change "promitives" to ""pri	mitives"			Proposed Respo	nse	Response Status O		
Proposed Response Re	esponse Status O							
C/ 90 SC 90.5.3.1.1	P 17	L 32	# 31	Cl 90 SC Ouellette, Michel	90.5.3.2.1	<i>P</i> 18 Huawei	L 5	# 46
Marris, Arthur	Cadence			Comment Type	Е	Comment Status X		
Comment Type T C ONE or undefined do not se	comment Status X	for SFD.		the "TS_SFD section.	_Detect_R	K" is used in the sentence b	ut only explained	d and shown in a later
SuggestedRemedy				SuggestedReme	dy			
Change to one of the follow "TRUE or FALSE"	ing:			Suggest to re in the a later		TS_SFD_Detect_RX function	on" from the sent	tence, as it is explained
"PRESENT or NOT PRESE "DETECTED or NOT DETE				The text coul	d look like t	nis:		
make similar change in 90.5				asserted (SF	D = ONE), t	n take any of the following tw he TimeSync Client is notifi	ied that a valid S	FD was detected by
Proposed Response Re	esponse Status O			the gRS subl	aver. Other	wise, the value of SFD para	meter is undefin	ed".

C/ 90 SC 90.5.3.2.1 Page 4 of 6 27/02/2010 11:21:31

C/ 90 SC 90.6 Marris, Arthur	P 18 Cadence	L 22	# 32	<i>Cl</i> 90 Anslow, P	SC 99.7 Peter	P 19 Nortel Network	L 30 s	# 48
Comment Type T Delete "as identified	Comment Status X			Comment	t Туре Т	Comment Status X t to 802.3-2008, which will presu	umably in a late	r draft include
SuggestedRemedy as above Proposed Response	Response Status O			chang At sor revisio and "S be be	ges to clauses 30 me point in the n on of 802.3. At t Summary of cha atter to have som	0 and clause 45. not too distant future, the amend this point, having subclauses - " inges to Clause 45" will be difficu nething like "Summary of TimeSy nc features in Clause 45"	ment will then b Summary of cha ult to understan	be incorporated into a anges to Clause 30" d. Therefore it would
C/ 90 SC 90.6 nslow, Peter Comment Type E	P 19 Nortel Networks Comment Status X	L 26	# 52	Chan		e titles to: nc features in Clause 30" and "S	Summary of Tim	neSync features in
The numbering of th	is clause jumps from clause 90 to c ne caption of Figure 99-2 at the top		page 19. (due to an		l Response	Response Status 0		
SuggestedRemedy	.			C/ 99	SC	P1	L 31	# 38
C C	ing of Figure 99-2 and subclauses	99-7 through 9	99.10.3 to clause 90.	Ouellette,		Huawei	231	# 30
Proposed Response	Response Status O			Comment	<i>t Type</i> E iation times of co	Comment Status X		
2/ 90 SC 90.6.2 Garner, Geoffrey	P 18 Samsung	L 53	# 34	Suggeste	dRemedy	tes "certain packets", the propos	sal in D.021 is f	or "all packets"
<i>comment Type</i> TR It appears that the re	Comment Status X eference to transmit signals should	be to receive	signals.		0	act on pg 2, line 2 states "initiatio		•
uggestedRemedy				We ne	eed to be clear a	and consistent. Is it "certain" or	"all".	
	o "receive", i.e., change " sequend ence is detected on receive signals		on the transmit		rtain", should we	e provide explanation as to which	n frame are beir	ng timestamped and
				*****	in annoo aro not	•		

CI **99** SC

Comments received IEEE P802.3bf Ethernet Support for the IEEE P802.1AS Time Synchronization Protocol comments

C/99 SC	P 4	L 52	# 49
Anslow, Peter	Nortel Netw	orks	
Comment Type E	Comment Status X		
	endment add changes required rly formed sentence - add sho		
SuggestedRemedy			
	ndment add changes required dds changes required to provic		urate" to
Proposed Response	Response Status O		
CI 99 SC 99.8	P 19	L 38	# 33
Marris, Arthur	Cadence		
Comment Type T	Comment Status X		
	45 to the 802.3bf draft as a m	atter of priority as t	his is probably the
	45 to the 802.3bf draft as a m	atter of priority as t	his is probably the
Need to add Clause most important part	45 to the 802.3bf draft as a m of the standard	atter of priority as t	his is probably the
Need to add Clause most important part SuggestedRemedy Add following regist 1.1800 and 1.1801 PHY transmit latence	45 to the 802.3bf draft as a m of the standard ers to Clause 45		his is probably the
Need to add Clause most important part SuggestedRemedy Add following regist 1.1800 and 1.1801 PHY transmit latence (ie 32 bit register co 1.1802 and 1.1803 PHY receive latence	45 to the 802.3bf draft as a m of the standard ers to Clause 45 y upper and lower ntaining PHY transmit latency	in nanoseconds)	his is probably the
Need to add Clause most important part SuggestedRemedy Add following regist 1.1800 and 1.1801 PHY transmit latence (ie 32 bit register co 1.1802 and 1.1803 PHY receive latence (ie 32 bit register co In Clause 90 add su 90.x MDIO function The optional MDIO status information a	45 to the 802.3bf draft as a m of the standard ers to Clause 45 by upper and lower ntaining PHY transmit latency v upper and lower ntaining PHY transmit latency ubclause	in nanoseconds) in nanoseconds) 45 defines two vari emented, it shall ma	ables that provide
Need to add Clause most important part SuggestedRemedy Add following regist 1.1800 and 1.1801 PHY transmit latence (ie 32 bit register co 1.1802 and 1.1803 PHY receive latence (ie 32 bit register co In Clause 90 add su 90.x MDIO function The optional MDIO status information a	45 to the 802.3bf draft as a m of the standard ers to Clause 45 by upper and lower ntaining PHY transmit latency v upper and lower ntaining PHY transmit latency ubclause mapping capability described in Clause bout the PHY. If MDIO is imple atus variables as shown in Tab	in nanoseconds) in nanoseconds) 45 defines two vari emented, it shall ma	ables that provide

C/ 99 SC 99.8