Cl 00 SC floor	Р	L	# 56	C/ 00 SC 0 Dawe, Piers	P Mellanox	L	# 48
Comment Type E check for prempt	Comment Status A			Comment Type TR I don't approve of t	Comment Status R he way this project has been run	, and how it has	been reported to 802.3.
SuggestedRemedy replace with preempt	(two "e"s)			SuggestedRemedy Terminate the proje	ect.		
Response ACCEPT.	Response Status C			Response Response Status W REJECT. This project has been run consistently with the rules of IEEE 802. We gay tutorials at the July 2013 and March 2015 plenaries to keep 802 informed of our pro-		5	
C/ 00 SC Thompson, Geoff	<i>P</i> GraCaSI S.A	L	# 31	as well as an inforr	complete since it doesn't state a	13 interim.	
	Comment Status R It to live up to the level of particulation of people expected to be			C/ 00 SC 0 Anslow, Pete	P Ciena	L	# <u>2</u>

"5.1 Approximate number of people expected to be actively involved in the development of this project: 30"

and it would appear that its market projections as put forth in the BMP criterium were overly optimistic on a grand scale. This is show by the poor participation. It would appear that most of the current interest comes from a particular industrial sector which failed to follow 802.3 recommendations about 20 years ago and did not install 4-pair cabling. Participation by other sectors has been very poor. IF there ever will be a true market need for this standard, it should be developed with broad participation from the bodies who need it when their own need is sufficiently close that the affected parties will send participants who are in the midst of development. It is a bad idea to develop a standard before the market is read for it.

SuggestedRemedy

Withdraw the project at this time or hibernate it until more people who are willing to participate in its development show up in 802.3. Requalify it for Broad Market Potential at that time and modify the PAR if needed and it is still active.

Response

Response Status U

REJECT. The market projections in the Broad Market Potential based on the automotive and industrial environments continue to be accurate. In fact, there is interest in additional markets such as carrier backhaul and professional audio video.

We have active participation in joint meetings from IEEE 802.1 TSN (a group of more than 30) which has a companion project (IEEE P802.1Qbu Frame Preemption) dependent on this project. Also, about 30 people have participated by commenting on ballots.

The interest in operating on fewer pairs and at lower speeds in the automotive and industrial market is driven by the need to reduce weight and power consumption.

Comment Type ER Comment Status A

The draft is not consistent on the version of IEEE Std 802.3 that it is amending. Page 1 says "Amendment of IEEE Std $802.3^{TM}-2015$ " Page 13 onwards say "Draft Amendment to IEEE Std 802.3-2012" Now that IEEE Std 802.3-2015 has been approved, change all references to the base standard to this.

SuggestedRemedy

Change all references to the base standard to "IEEE Std 802.3-2015"

Response Response Status W

ACCEPT.

CI 00 SC 0

Dynamic Type TR Comment Status R The call for hiersest held in the March 2012 plenary for Frame Preemption was withdrawn after too much controversy over the characterization of the problem and solution. After a subsequent CFI, the first attempt to approve a PAR and objectives at the July 2013 plenary for the terminology with 802.3 (distinguished minimum latency traffic and "M-frames", "M-frames", "M-frames) in the wild" was developed the currently accepted objectives accepted in November 2013. The only place the accepted terminology appears in the draft is in the tile and the name of the task force. The entire draft uses the terminology (globally in the draft per the agreed objectives. In particular: 1.4.3 - change "preemptable Media Access Control" to "non-express Media Access Control" to "non-express Media Access Control" to "non-express traffic". Add ETT to the accorpting defined in clause 3. Comment Type ER Comment Status A Update the terminology globally in the draft per the agreed objectives. In particular: 1.4.3 - change "preemptable Media Access Control" to "non-express MACL". Comment Type E Comment Status A MAC Call PMAC cont consistent in clause 3. Comment Status A The terminology approve and the content opported of the traft per the non-express MAC (globally. Comment Type E Comment Status A MAC call PMAC cont consistent in clause 3. Comment Status A The terminology apported of "terminology apported", "Freemptable" Add. ET tot non-express MAC (globally. <td< th=""><th>C/00 SC 0</th><th>Р</th><th>L</th><th># 13</th><th>C/ 00</th><th>SC 0</th><th></th><th>P 13</th><th>L 0</th><th># 15</th></td<>	C/00 SC 0	Р	L	# 13	C/ 00	SC 0		P 13	L 0	# 15
The terminology in the amendment does not match the agreed objectives for the project. The Gali for Interest held in the March 2012 plenary for Frame Preemption was withdrawn aubsequent CFI, the first attempt to approve a PAR and objectives at the July 2013 plenary in Geneva failed due to inconsistency of the terminology with 802.3 (distinguished minimum latency traffic and "M-frames", "M-frames in the wild "were rejected. After rework in the York interim, a characterization as "Interpreting express staffic" as developed, leading to the currently accepted objectives accepted in November 2013. The only place the accepted terminology globally in the draft per the agreed objectives. In particular: 1.4.3 - change "preemptable traffic" to "non-express Media Access Control" with an appropriate accomym 1.4.4 - change "preemptable" in clause 30 change to "in" Supported". "IETE Fabled", "IETActive", etc. Add IET to the accomyned for the non-express MAC globally. mAC clear supporting". MAC and PNAC not consistent in clause 79. but should change dlobally to neMAC (or whatever accomym is chosen stills" solut de non-express MAC globally. MAC and PNAC not consistent in clause 79. but should change to "IET Supported". "IETE mabled", "IETActive", etc. MAC and PNAC not consistent in clause 79. but should change dlobally. MAC Clear supporting". MAC Clear supporting "Deremption" becomes "MAC Globally. MAC Elect supporting". MAC Clear supports preemption becomes "Int" and the propering IET" globally "into partner supports IET" subject IET" subjects IET" supports <i>Response Status</i> W REJECT. Biscuss whether to roname the MAC Merge Sublayer to IET subjects IET" supports <i>Response Status</i> W REJECT. The main complaint about the initial CFI was that it presumed a solution and that should be	rowbridge, Steve	Alcatel-Lucent			Remein, I	Duane		Huawei		
1.4.3 - change "preemptable Média Access Control" to "non-express Media Access Control" with an appropriate accorom 1.4.4 - change "preemptable infaitic" to "non-express traffic" Add IET to the acronyms defined in clause 1. Occurrences of "preemptable" in clause 30 ohange to "non-express", objects such as "Preemptisupported", "Preemptichabled", "IETActive", etc. Change "preemption capability" to "IET capability" globally in clause 79. pMAC and PMAC not consistent in clause 79, but should change globally to neMAC (or whatever acronym is chosen for the non-express MAC globally. "MAC client supporting preemption" becomes "MAC globally "Inter supports preemption is active" becomes "IET is active" globally "Inter supports preemption" becomes "Inter supports IET" sponse Response Status W REJECT. Discuss whether to rename the MAC Merge Sublayer to IET sublayer. The editor finds MAC Merge more descriptive of what the sublayer does, but if we want to increase the use of IET in the d	omment Type TR The terminology in The Call for Intere after too much con subsequent CFI, t in Geneva failed d minimum latency f in the York interim leading to the curr the accepted term	Comment Status R the amendment does not match the stheld in the March 2012 plenary for the first attempt to approve a PAR a ue to inconsistency of the terminologication raffic and "M-frames", "M-frames ir , a characterization as "interspersin" ently accepted objectives accepted inology appears in the draft is in the	he agreed objectives for Frame Preemption of the problem and s and objectives at the d ogy with 802.3 (distin the wild" were reject ing express traffic" wa d in November 2013. e title and the name of	n was withdrawn olution. After a July 2013 plenary guished ted. After rework is developed, The only place of the task force.	Comment This a Suggeste Chan "Draft "IEEE to "Draft "IEEE Response	<i>Type</i> amendme <i>dRemedy</i> ge headin Amendm P802.3b Amendm P802.3b	nt is aga ng in all nent to II r Task F nent to II	Comment Status A ainst 2015 not 2012 edition & d clauses from: EEE Std 802.3-2012" Force name Task Force" EEE Std 802.3-2015" persing Express Traffic Task F		rrors
REJECT. Discuss whether to rename the MAC Merge Sublayer to IET sublayer. The editor finds MAC Merge more descriptive of what the sublayer does, but if we want to increase the use of IET in the draft, it would be a reasonable way to do it. The main complaint about the intiial CFI was that it presumed a solution and that should be	1.4.3 - change "pr Control" with an al 1.4.4 - change "pr Add IET to the acr Occurrences of "p "PreemptSupporte "IETEnabled", "IE" Change "preempting pMAC and PMAC whatever acronym Clause 99: preem "MAC client suppor pMAC becomes n "preemption is act "enable preemption	eemptable Media Access Control" is popropriate acronym eemptable traffic" to "non-express to onyms defined in clause 1. reemptable" in clause 30 change to dd", "PreemptEnabled", "PreemptAc FActive", etc. on capability" to "IET capability" glo not consistent in clause 79, but sho is chosen for the non-express MA otable MAC should be non-express orting preemption" becomes "MAC eMAC (or chosen acronym) globall ive" becomes "IET is active" global n" becomes "enable IET" globally	to "non-express Medi traffic" o "non-express", obje ctive" change to "IET obally in clause 79. ould change globally C). s MAC globally. client supporting IET' ly	ia Access cts such as Supported", to neMAC (or	Tretter, Al Comment Page Suggeste Corre Response ACCE not th This v P802	bert <i>Type</i> number a <i>dRemedy</i> ct the nur e EPT IN PF e draft for vas becau 3br_D2_2	E nbering RINCIPL comme use the .pdf is r	Siemens AG <i>Comment Status</i> A 18 changes again to page 1 <i>Response Status</i> C .E. The numbering error only c ent. table of contents generated for numbered correctly and was generated for	occurs in the co	ompare draft which is at the numbering.
	Discuss whether t MAC Merge more of IET in the draft, The main complai	o rename the MAC Merge Sublaye descriptive of what the sublayer do it would be a reasonable way to do nt about the intiial CFI was that it p	bes, but if we want to b it.	increase the use						

After the project was created, preemption was chosen as part of the solution for interspersing express traffic. The suggested name changes would not aid the reader in understanding the material. There is no reason to obfuscate the selected mechanism.

The project meets the agreed objectives.

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 00 SC 0

IEEE 802.3br, D2.2	IEEE	302.3br Inte	erspersing Express T	affic Initial Working Grou	p ballot comments	:	2nd Initial WG ballot
C/ 1 SC 1.4 Lusted, Kent	P Intel	L	# 3	C/ 1 SC 1.5 Dawe, Piers	P 17 Mellanox	L 35	# 50
Comment Type TR the abbreviation "MM" f exact.	Comment Status R or merged MAC is used extens	ively within dr	aft. 44 times to be	Comment Type E Don't add abbreviatio SuggestedRemedy	Comment Status A ns that only one clause uses.		
The abbreviation is not	listed in Clause 1.5.			Delete HRT, probably	more.		
SuggestedRemedy				Response	Response Status C		
Add abbreviation for Me	erged MAC in Clause 1.5.				PLE. Delete HRT which is used service interface which makes in		
Response	Response Status W			CI 79 SC 79.3.7	P 28	L 32	# 51
	ed as an acronym or abbreviati			Dawe, Piers	Mellanox		
PICS item names and t	s in the acronym list and as par he name of a parameter simila			Comment Type T	Comment Status R		
parameter name MA_D Adding it to the abbrevia Merge which would not	ation list would open it to being	used in place	of the term MAC	octets of the field are transmitted. If fewer	net capabilities" field is n octets defined, additional octets are re octet(s) are received than defin were received as zero.	eserved. Reserved.	ved octets shall not be
Cl 1 SC 1.4.339a Thompson, Geoff	P 17 GraCaSI S.A. Comment Status A	L 24	# 24	it were 4+2, or 4+1, o	ormation string length 4+n is tra r 4+0. Is the idea that n allows oes the receiver know where to	for future expan	sion? If one TLV can
Comment Type E Missing space	Comment Status A			information string len seemed to be fixed le	gth is misleading? All the TLVs ngth.	in the base Cla	use 79 that I saw
SuggestedRemedy				SuggestedRemedy			
Change text to read: "la	yer (IEEE Std 802.3"			It would be simpler to	commit to a fixed additional Et	hernet capabiliti	es length, 2 or 3 bytes.
Response	Response Status C			Response	Response Status C		
ACCEPT.					e wouldn't make the TLV much was created this way so that ne		
C/ 1 SC 1.4.340 Tretter, Albert	P 22 Siemens AG	L 39	# 6	to the TLV instead of The space for TLVs is	continuing to create a new TLV s limited because only one LLD	′ for each new c P PDU of TLVs	apability that is added.
Comment Type E Empty reference 1.4.34	Comment Status A			provides a more effici	ent way for advertising new cap	oabilites.	
SuggestedRemedy Remove Reference or a	add approbriate text						
Response	Response Status C						
	E. It is removed in the draft. It a of the ballot only because the						

CI 79 SC 79.3.7

IEEE 802.3br, D2.2 IEEE 802.3br Interspersing Express	s Traffic Initial Working Group ballot comments 2nd Initial Wo	'G ball
C/ 79 SC 79.4.2 P 29 L 34 # <u>32</u> Dawe, Piers Mellanox	C/ 90 SC 90.4.3.2.1 P 32 L 43 # 30 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	
Comment Type E Comment Status A Tidying up.	Comment Type TR Comment Status R New text is unnecessary	
SuggestedRemedy Make the middle column wider to fit its contents. Also Table 79-10, Table 99-1.	SuggestedRemedy Remove new text.	
Response Response Status C ACCEPT IN PRINCIPLE. These are columns being added to existing tables and the	Response Response Status U REJECT. See #29	
existing tables set the column widths. Carriage returns will be added to keep words from being split in the middle column.	C/ 99 SC 1 P 35 L 9 # 22	
C/ 90 SC 90.4.3.1.1 P 32 L 19 # 1	Szczepanek, Andre Inphi	
Anslow, Pete Ciena	Comment Type TR Comment Status R	
Comment Type E Comment Status A	RE "operating at 100 Mb/s or higher"	
90.5.1 is part of this amendment, so "90.5.1" should be a cross-reference (not forest green).	The byte orientated service interfaces detailed in this draft are incompatible with the 100MBps RS layer defined in Clause 22 which is nibble orientated.	ŧ
Same issue for "90.5.2" on line 40	SuggestedRemedy	
SuggestedRemedy	Change "operating at 100 Mb/s or higher" to "operating at 1000 Mb/s or higher"	
Change "90.5.1" and "90.5.2" to be cross-references.	Response Response Status W	
Response Response Status C ACCEPT.	REJECT. We do not have byte oriented service interfaces. The shim service interface the PLS service interface which is bit oriented.	ces are
	C/ 99 SC 3.2 P 40 L 31 # 21	
C/ 90 SC 90.4.3.1.1 P 32 L 21 # 29	Szczepanek, Andre Inphi	
hompson, Geoff GraCaSI S.A.	Comment Type ER Comment Status A	
Comment Type TR Comment Status R	Wrong Figure Index - should be 99-4(a)/(b)	
This addition of another variable seems unnecessarily complex. The bridge (or end station) is supposed to have port configuration information that knows this is a pMAC and therefore unsuitable for use in timed applications. Second, the indication should only take	SuggestedRemedy Change "99-3(a)" to "99-4(a)"	
place upon the passage of a legacy SFD. The new SFD codings will not exert it.	Change "99-3(b)" to "99-4(b)"	
Suggested Remedy	Response Response Status W ACCEPT.	
Removed the new text.	AUGENI.	
Response Response Status U		
REJECT. We asked IEEE 802.1 TSN at our joint meeting in July whether they needed this on the preemptable path or whether they could work with it only on the express path. The experts there affirmed that they need the time stamp on both paths.		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 99
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 3.2
SORT ORDER: Clause, Subclause, page, line	

IEEE 802.3br, D2.2

IEEE 802.3br Interspersing Express Traffic Initial Working Group ballot comments

CI 99	SC 4.7.7	P 50	L 5	# 4	C/ 99	SC 90.4.3.1.	1 P 32	L 22	# 14
Lewis, Jon		Dell			Remein, D	uane	Huawei		
Comment T	ype E	Comment Status A			Comment	Туре Е	Comment Status R		
boxes a read wh INIT_T	re touching o ien zoomed o <_PROC	shown in figure 99-5 many of t r almost touching the line abo ut. This includes the following	ve it making it m		instan	tiated." seems to). Same issue in	mandatory when the MAC be a requirement stateme 90.4.3.2.1. However the s	ent but does not us	e proper wording (no
EXPRE	SS_IX COMPLETE				Suggested	lRemedy			
	COMPLETE						factual statement. "When		
SuggestedF	Remedy						parameter is included in the	ne TX_TX.indication	า."
00	2	allow more room between th	e text and the s	ate frame box.	Response		Response Status C		
Response ACCEP 	T. SC 4.7.7	Response Status C P 51 Dell	L 8	# 5	is ofter 78.1.3 80.2.3 82.6 Auto-N	n used in IEEE 8 .1.1 Fast wake s It [FEC]is option . support for the Jegotiation proce	ess is mandatory.	example: r	
,	-				The sh	nall statement in	90.5.1 is about the value	of the parameter, no	ot the presence of it.
	text entries ir	Comment Status A the state diagram 99-6 are d close to the state box line just			<i>Cl</i> 99 Dawe, Pie	SC 99.1	P 35 Mellanox	L 10	# 52
IDLE_R CHECK REPLA BAD_F P_REC CHECK INCRE	EIVE_DATA [_FRAG_CNT MENT_FRAG				Accord or high the ind makes delay	C "Broad Market ding to other rec her". Changing f dustry if it were r s sense; for high through cables of	Comment Status R Potential" response talks ent projects, that's 100 Mb he Ethernet MAC, as this estricted to the speeds (ar er speeds, the time saving loesn't, so it is less attracti re voting for this project, th	/s and 1 Gb/s. Yet project does, would d preferably the PH from preemption b ve. Judging by the	this says "at 100 Mb/s be less unpalatable to Y types) where it ecomes smaller but the very poor level of
SuggestedF	2				Suggested	Remedy		-	
Modify t Response ACCEP	C C	ram to add more space betwe Response Status C	en the text and	the state box.	Chang know j types. As a la	e "at 100 Mb/s o people could mis	or higher" to "at 100 Mb/s o s-apply it anyway). Prefera and 5GBASE-T should deo or not.	ably, give an explici	t list of applicable PHY
					Response		Response Status W		
					projec	t. We decided n	ed whether to put this limita of to put an artififcial upper can be implemented whe	bound on the oper	early drafts of the ating speed. This is an

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/ 99 SC 99.1 Page 5 of 12 9/16/2015 2:17:38 PM

CI 99	SC 99.1	P 35	L 22	# 33
Dawe, Pie	ers	Mellanox		

Comment Type TR Comment Status A

"the MAC Merge sublayer may prevent the pMAC from starting transmission of preemptable traffic." So this proposed thing is clearly a new MAC, because it controls access to the medium. A new MAC client with roughly twice as many queues, management registers, everything, is needed to use it. This isn't "Conformance with the IEEE Std 802.3 MAC". "conformance with the MAC client interface" or "conform to the fullduplex operating mode of the IEEE 802.3 MAC" as alleged in the 5C "Compatibility" response. It forces anyone with a MAC design to redesign it.

SuggestedRemedy

Revise the 5C responses to reflect that this is a new or modified MAC, get a vote from 802.3 as to whether they want that;

or revise the draft so that it conforms to the 5C "Compatibility" response: or terminate the project, like P802.3ar Congestion Management. Response Status W

Response

ACCEPT IN PRINCIPLE. Replace with "the MAC Merge sublaver may prevent the start of transmission of frames from the pMAC"

It isn't changing the MAC. It is holding off acceptance of the primitive from the MAC. There is no change to the MAC. We are consistent with the Compatibility response since we do not make any changes to the MAC. Other projects such as PAUSE, PFC and point-tomultipoint changed the control of access to the medium without changing the MAC.

IEEE 802.1Qbu is defining protocols for MAC Clients that expect this behavior. It doesn't require twice as many queues. IEEE 802.1Q already defines use of up to 8 traffic classes (e.g. queues) and such implementations are common.

This is an optional capability and doesn't force anyone to support it. Devices supporting the optional capability are fully interoperable with devices that don't support it.

CI 99	SC 99.1	P 35	L 24	# 18
Marris, A	rthur	Cadence Des	sign Syst	
<u></u>	·			

Comment Type T Comment Status A

The meaning of the word "holds" is ambiguous.

SuggestedRemedy

Change to "stops" which is what the signal is actually doing, also insert the word "either" so the text reads:

"This clause also specifies a MAC Merge Service Interface (MMSI) providing a primitive that either stops or resumes transmission of preemptable traffic"

Response

Response Status C

ACCEPT. Also change to "stop" on page 39 lines 9 and 19 where "hold" is used similarly.

CI 99	SC 99.1	P 35	L 30	# 19	
Marris, Ar	thur	Cadence Des	ign Syst		

Comment Type T Comment Status R

It is not entirely clear what effect the MMSI service primitive has.

SuggestedRemedy

Change text to:

"When preemption capability is active, the MAC Merge sublayer allows the MMSI service primitive to prevent transmission of frames over the preemptable MAC service interface and frames provided over the express MAC service interface (express traffic) to interrupt transmission of frames provided over the preemptable MAC service interface (preemptable traffic)."

Response Response Status C

REJECT. The effect of the MMSI service is correctly described in the current text.

When preemption is active, it has the same effect as a frame provided over the express MAC service interface. If a preemptable frame is being transmitted and can be preempted (i.e. enough octets have been transmitted and enough remain), the frame will be preempted.

C/ 99	SC 99.1	P 35	L 39	# 20
Marris, Arth	nur	Cadence Desi	gn Syst	
Comment 7	Туре Т	Comment Status A		
Figure	99-1 does not me	ention the MMSI at all.		

Also Figure 99-1 does not mention the eMAC and the pMAC.

SuggestedRemedy

Consider deleting the text "and the MMSI" on line 39 page 35.

In Figure 99-1 on page 36 line 9 change the two references to "MAC — MEDIA ACCESS CONTROL" to just "eMAC" and "pMAC".

Response Response Status C

ACCEPT IN PRINCIPLE. Delete "and the MMSI" as this figure is focused on the relationship between the sublayers and we added Figure 99-2 to show the interfaces.

In the last ballot, the input we received was that this figure should carry the names of the sublavers (MAC - MEDIA ACCESS CONTROL) rather than the names for purpose of each instantiation (eMAC and pMAC). The text goes on to explain that the two MACs are the eMAC and pMAC.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 99	Page 6 of 12
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 99.1	9/16/2015 2:17:38 PM
SORT ORDER: Clause, Subclause, page, line		

Mellanox
Comment Status A ability is only enabled after". So, not what? disabled? enhanced? ver
nption capability is enabled only after". only"s in the draft: change
eld is only present in mPackets with SMD-C. to eld is present only in mPackets with SMD-C.
occurs if at least 60 octets rs only if at least 60 octets e better expressed in the negative).
ER.indication primitive is only produced during ER.indication primitive is produced only during e better re-ordered; see another comment).
Response Status C
P 35 L 48 # 44 Mellanox Mellanox # 44 R Comment Status R # aption capability is only enabled after it has been determined that the it (see 99.4.2)" and 99.4.2 says "The preemption capability is enabled tion only if it is determined that the link partner supports the preemption.4.3 says "Verification may be disabled", which it seems breaks the n 99.1 and 99.4.2.
u said you would do, or don't claim you are doing it and explain how and without verification.
ng without vermeation.
1113 1111

The receipt of an Additional Ethernet Capabilities TLV with contents indicating that the link partner supports preemption fulfills the statement in 99.4.2.

Verification is an additional check to determine if anything in the link interferes with preemption. It isn't needed in some fixed configurations such as links manufactured into a car.

CI 99

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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 SC 99.1 9/16/2015 2:17:38 PM SORT ORDER: Clause, Subclause, page, line

C/ 99 SC 99.1 Dawe, Piers	P 35 Mellanox	L 49	# 39	C/ 99 SC 9 Dawe, Piers	9.1 P 36 Mellanox	L 22	# 35
thing, which is a new MAC? Will it work?	Comment Status A omething about compatibility; wh w MAC apart from the name, to Will it bring a network down? S or that has preemption disabled	a link partner with 99.4 talks about "	n a regular 802.3 device that does not	What does "Me SuggestedRemedy	E Comment Status R edia Independent Interfaces for in e Media Independent Interfaces	mplementations" me	
-	Cs; what about one that doesn't?	•		•	ident interfaces at 100 Mb/s"?		
SuggestedRemedy				Response	Response Status C		
Assure us of compa	atibility and interoperability (or te	rminate the project	ct).		explanation of xMII has the sam 802.3. Media Independent Inter		
Response	Response Status W			(see 1.4.267).			II that is capitalized
ACCEPT IN PRINC	IPLE. Yes, it will work. This is al	ready covered in	the text.	C/ 99 SC 9	9.1.1 <i>P</i> 36	L 33	# 38
device with MAC M disabled but it is alv In that case, the Ad	n't support preemption" is a devi erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL tion so preemption will not be en	t preemption. Pre V won't be sent o	eemption might be	we have "99.1 SuggestedRemedy		relationship with" onc standards".	
device with MAC M disabled but it is alv In that case, the Ad support for preempt SFD as usual.	erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL	t preemption. Pre V won't be sent o	eemption might be	Comment Type Section 6 uses we have "99.1 SuggestedRemedy	E Comment Status A s "relationship to" 18 times and "r 1 Relationship with other IEEE s base spec, a sentence on the pre-	relationship with" onc standards".	
device with MAC M disabled but it is alv In that case, the Ad support for preempt SFD as usual.	erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL tion so preemption will not be en	t preemption. Pre V won't be sent o abled and packet	eemption might be or won't indicate ts will be sent with the	Comment Type Section 6 uses we have "99.1 SuggestedRemedy To match the b	E Comment Status A s "relationship to" 18 times and "r 1 Relationship with other IEEE s base spec, a sentence on the pre-	elationship with" onc standards". evious page, and the	
device with MAC M disabled but it is alw In that case, the Ad support for preempt SFD as usual.	erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL tion so preemption will not be en	t preemption. Pre V won't be sent o abled and packet	eemption might be or won't indicate ts will be sent with the	Comment Type Section 6 uses we have "99.1 SuggestedRemedy To match the b change "with"	E Comment Status A s "relationship to" 18 times and "r 1 Relationship with other IEEE s base spec, a sentence on the pre- to "to".	elationship with" onc standards". evious page, and the	
device with MAC M disabled but it is alv In that case, the Ad support for preempt SFD as usual. C/ 99 SC 99.1 Dawe, Piers Comment Type E Tidying up. SuggestedRemedy ETHERNET LAYEF	erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL tion so preemption will not be en <i>P</i> 36 Mellanox <i>Comment Status</i> R RS can go on one line. RENCE MODEL LAYERS are h	t preemption. Pre V won't be sent o abled and packet	eemption might be or won't indicate ts will be sent with the # 34	Comment Type Section 6 uses we have "99.1 SuggestedRemedy To match the b change "with" Response	E Comment Status A s "relationship to" 18 times and "r 1 Relationship with other IEEE s base spec, a sentence on the pre- to "to".	elationship with" onc standards". evious page, and the	
device with MAC M disabled but it is alv In that case, the Ad support for preempt SFD as usual. C/ 99 SC 99.1 Dawe, Piers Comment Type E Tidying up. SuggestedRemedy ETHERNET LAYEF This and OSI REFE	erge is defined to always suppor vays supported. Iditional Ethernet Capabilities TL tion so preemption will not be en <i>P</i> 36 Mellanox <i>Comment Status</i> R RS can go on one line. RENCE MODEL LAYERS are h	t preemption. Pre V won't be sent o abled and packet	eemption might be or won't indicate ts will be sent with the # 34	Comment Type Section 6 uses we have "99.1 SuggestedRemedy To match the b change "with" Response	E Comment Status A s "relationship to" 18 times and "r 1 Relationship with other IEEE s base spec, a sentence on the pre- to "to".	elationship with" onc standards". evious page, and the	

IEEE 802.3br, D2.2

C/99 SC 9	.2.2	P 39	L 5	# 27	CI 99	SC 99.3.3	P 40	L 37	# 23
hompson, Geoff		GraCaSI S.A.			Thompson	n, Geoff	GraCaSI S.A	۱.	
I see no need f to the eMAC fo preemption sho	or this primitive. I transmission the uld take place wit	en it should be transi thout any further cor	mitted ASAP an trol needed.	a frame is presented d any necessary e transmit buffer in the	techn used	ging delimiters m ology will have to that kept the lega be used in IET a	Comment Status R neans that all media side test o have a hardware change fro acy delimiter, then legacy and applications with only a software	om legacy equipn d current main ma	nent. If a scheme were
SuggestedRemedy					00	,	esn't require a new frame de	limiter or delimite	rs. Using the
Remove sub-cl	ause 99.22				estab	lished delimiter v	will at least provide hardware	compatibility with	
esponse	Respor	nse Status W					nufacturing and in the user fie	eld.	
REJECT. This	primitive is require	ed in the project obje	ectives.		Response		Response Status W sms that don't introduce new		
that the schedu above the MAC on the pMAC w Tutorial on IET	ed traffic can be because that wo asting up to a ma slide 39 for an ill	sent immediately. T uld require stopping x frame time on the ustration on this.	hat cannot be de transmission a media. See the	-	possil In ado captu	ble while meeting dition, this does r res the full packe	and minimizes the overhead f g other objectives. not require a change to all tes et including preamble, has pro t require hardware change.	t equipment. Sor	ne test equipment
/ 99 SC 9 9 an, Adee	.2.2.1.3	P 39 Intel	L 34	# 55	C/ 99	SC 99.3.3	P 40	L 37	# 28
	E Comm	ent Status A			Thompson	n, Geoff	GraCaSI S.A	۱.	
Comment #40 a "the MAC Merg Also in 99.3, lin The latter appe	igainst D2.1 was e sublayer".	only partly impleme e sublayer" should t		-	frame robus appro SFD.	pretty unhappy w /packet delimiter tness of such a s val there was sig One of the resu	Comment Status R with the entire approach of hav r. To my knowledge there ha scheme, especially one with a gnificant discourse and invest lts of that discussion was to r e addition of a length field.	s been no investi nultiple values. <i>I</i> igation of the err	gation of the error At the time of the initia or robustness of the
IggestedRemedy	the dreft and veri	futbot "NAAC Marga	" includes "cubl	war" whore peacear	Suggeste	dRemedy	J. J		
		difficult to make this		ayer" where necessary, in a PDF reader.	Use a	scheme that do	esn't require a new frame de		
•	-	se Status C	0		estab	lished delimiter v	vill at least provide equivalen	t performance to	current

Response

Response Status C

ACCEPT IN PRINCIPLE. Will add sublayer here. The other cases where MAC Merge appears without sublayer, it is modifying another noun such as MAC Merge package (in managed objects) MAC Merge packet and MAC Merge Service interface or in the terse PICS item descriptions.

We had prior comments that requested removal of "the" before MAC Merge sublayer so that will not be added.

Response Response Status W

implementations.

REJECT. The existing delimiter has zero Hamming distance (a 1 bit change during preamble can cause a false SFD). The new delimiters all have at least a Hamming distance of 3 from preamble (and a Hamming distance of 4 from SFD). They are therefore all stronger than the original SFD and have the same Hamming distance from SFD that we have used in developing PHY encodings such as 64b/66b.

While IEEE 802.3 initially added a length field to strengthen the SFD, most frames today use an Ethertype and IEEE 802.3 was updated to allow that.

TYPE: TR/technical required ER/editorial required GR/gener	ral required T/technical E/editorial G/general	C/ 99	Page 9 of 12
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 99.3.3	9/16/2015 2:17:38 PM

SORT ORDER: Clause, Subclause, page, line

IEEE 802.3br, D2.2	IEEE	802.3br Inte	rspersing Express Tra	affic Initial Wo	orking Group	ballot comments		2nd Initial WG ballo
C/ 99 SC 99.3.3 Thompson, Geoff	P 41 GraCaSI S.A.	L 18	# 25	<i>Cl</i> 99 Dawe, Piers	SC 99.4.1	P 42 Mellanox	L 40	# 42
Comment Type E	Comment Status R			Comment T	vpe E	Comment Status A		
Through line 22 I don't understand why th	ese values are shown, or at ations should never occur.	least shown thi	s way in the table. As		lerge sublayer pa alteration	isses through the packets p	resented by th	e pMAC and eMAC
SuggestedRemedy				Suggested	•			
	ues should be marked as "e	rror" or "reserve	ч д "		kets presented b alteration	y the pMAC and eMAC pas	s through the l	MAC Merge sublayer
Response	Response Status C			or				
•	all occur. They indicate the fr	ame count (not	the fragment count)		C Merge sublaye alteration	r passes the packets prese	nted by the pN	IAC and eMAC through
which must match betwee	en the frame start and all fra	gments of the fr	ame. This count	Response	alteration	Response Status C		
	e fragments belong to the sa are not received as one fram			•		E. Use the first suggested re	medv	
the first fragment of the n		ופ וו נוופ ומגר וומנ		A COL			mody	
C/ 99 SC 99.3.6	P 42	L 27	# 40					
Dawe, Piers	Mellanox		" 40					
Comment Type T	Comment Status A							
••	alculated 32 bits with 0x0000) FFFF". In the	terminology of 3.2.9,					
SuggestedRemedy Please specify explicitly.								
	Response Status C							
ACCEPT IN PRINCIPLE. transmitted most signification	It isn't clear that anything is ant octet first and it is only th the same for all bits within a	e bit order withi						
	e: I with the two most significar t significant octets of the CR		CRC and 0xFFFF is					
C/ 99 SC 99.4	P 42	L 30	# 41					
Dawe, Piers	Mellanox							
Comment Type E MAC Merge Sublayer Op	Comment Status A							
SuggestedRemedy								
MAC Merge sublayer ope	eration							
	Response Status C							
10000100								

ACCEPT.

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/ 99 SC 99.4.1

IEEE 802.3br Interspersing Express Traffic Initial Working Group ballot comments

C/ 99	SC 99.4.1	P 42	L 41	# 16
Remein, I	Duane	Huawei		

Comment Type TR Comment Status R

"If both the eMAC and pMAC have a packet ready to transmit and no packet is being transmitted, the eMAC packet is transmitted." Presumable this is the behavior when the remote MAC does not support preemption yet this behavior is different from the most common MAC where there is a one to one relationship between the MAC and PHY and could result is problems when the remote does not support preemption. The statement implies the MAC Merge layer acts as a strict priority scheduler when disabled (eMAC frames always preferred over pMAC frames). If the remote MAC only has one MAC (and thus only on DA) and not two, frames from either the pMAC or the eMAC will be dropped at the remote station. Even if the remote MAC does support 2 MAC addresses frames could arrive the remote MAC out of order.

SuggestedRemedy

Recommend when link partner does not support preemption that either the pMAC or eMAC be disabled instead.

Response Response Status W

REJECT. There are two MAC instantiations but it is considered one port and has one MAC address. Even if it did have two addresses, that would only affect the source address.

The destination address would be the destination address of the remote MAC in any case (assuming that MAC has only one address).

By the way, it is fairly common for existing MACs to transmit with muliple source address, e.g. bridges, ports on systems with virtual machines.

IEEE 802.1Q specifies priority and allows reordering of packets from different priorities and enforces ordering within priorities with the same source and destination. The IEEE 802.1Qbu usage of 802.3br keeps all traffic from a priority on one client. Therefore, there will be no change to existing behavior.

CI 99	SC 99.4.2	P 43	L 1	# 57
Gardner, A	ndy	Linear Techno	logy	

Comment Type E Comment Status A

Requirements for inter-operability should be mandated by 'shall' instead of 'should'

SuggestedRemedy

Consider using shall instead of should

Response

Response Status C

ACCEPT IN PRINCIPLE. We will add the shall to 79.3.7.2 where the TLV usage rules should be specified and change this "shall" to is.

Add a PICS entry to Clause 79 PICS for this.

TYPE: TR/technical required ER/editorial required GR/gener	ral 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	

<i>CI</i> 99 Dawe, Pie		99.4.3	P 4 Mella	-	L 12	# 43
<i>Comment</i> Blank		Е	Comment Status	Α		
Suggested Remo		dy				
Response ACCE			Response Status	С		
<i>Cl</i> 99 Dawe, Pie		99.4.4	P 4 Mella	-	L 53	# 53
	dn't the ve Proc	essing?	Comment Status ne text mentioning the		count feature here	e, as there is for
00		-	ning the frame count f	eature.		
count At line	PT IN I is enco	ded in the	Response Status E. Add: "When preer SMD-S value. " MD-C encodes the sa	nption c		. Ç
C/ 99		99.4.4	P 4	4	L 10	# 46

CI 99	SC 99.4.4	P 44	L 10	# 46
Dawe, Pie	ers	Mellanox		
Comment Link I	<i>t Type</i> E Interruption - what	Comment Status A		
Suggeste	dRemedy			

Please provide a cross-reference. I could not find a statement of which PHYs use this.

Response Response Status C

ACCEPT IN PRINCIPLE. Add cross reference to 46.3.4. Also cross reference Clause 78 for EEE.

Cl	99
SC	99.4.4

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C/99 SC 99.4.4 P 44	L 10	# 45	C/ 99	SC 99.5	F	^{>} 54	L 1	# 17
Dawe, Piers Mellanox			Remein, Du	ane	Hua	awei		
Comment Type E Comment Status A The PLS_CARRIER.indication primitive is only proc EEE or Link Interruption is supported.	duced during full d	luplex operation when					there are only	15 PICS statements.
SuggestedRemedy			SuggestedF	Remedy				
In full duplex operation, the PLS_CARRIER.indicat or Link Interruption is supported.	ion primitive is not	produced unless EEE	Either re in the P		all" statements or ad	ld PICS state	ements so eve	ery requirement is listed
Response Response Status C			Response		Response Statu	is W		
ACCEPT.			ACCEP	T IN PRINCIP	LE. Add PICS items	s for		
Cl 99 SC 99.4.7.1 P 45 Dawe, Piers Mellanox	L 37	# 54	Split MN	A-7 into two, o	E (page 35 line 46) ne for verify and on page 44 line 22)	e for respon	se shalls	
Comment Type T Comment Status A This says "PLS service interface between MAC Me	rae cublever and I	DI C" but C. Dhysical	C/ 999	SC 999	F	^{>} 2	L 3	# 47
Signaling (PLS) service specifications, says "This c	clause specifies the	e services provided by	Dawe, Piers	5	Me	llanox		
the DLC sublements the MAC sublements of Mh/s s	a al 40 Mila /a translate							
the PLS sublayer to the MAC sublayer for 1 Mb/s a		mentations of this	Comment T	ype ER	Comment Statu	us A		
standard" which are invalid speeds for MAC Merge		nentations of this	-		Comment Statu		erial.	
standard" which are invalid speeds for MAC Merge uggestedRemedy	·. ·	nentations of this	-	stract isn't a su			erial.	
standard" which are invalid speeds for MAC Merge SuggestedRemedy PLS service interface between MAC Merge sublaye	·. ·	nentations of this	The abs SuggestedF Delete "	stract isn't a su Remedy Adoption of E	itable place for advent	ertising mate	uch as autom	
standard" which are invalid speeds for MAC Merge SuggestedRemedy PLS service interface between MAC Merge sublaye Response Response Status C ACCEPT IN PRINCIPLE. The sentence in Clause 6 indicate that they use Clause 6 primatives.	er and RS?		The abs SuggestedF Delete " automa converg	stract isn't a su Remedy Adoption of Et tion, transporta je low latency	itable place for adve thernet into new ma ation (aircraft, railwa	ertising mate irket areas s ay and heavy c streams."	uch as autom y trucks) has g As they appe	otive, industrial jenerated a need to ar nowhere else in the
standard" which are invalid speeds for MAC Merge suggestedRemedy PLS service interface between MAC Merge sublaye Response Response Status C ACCEPT IN PRINCIPLE. The sentence in Clause 6 indicate that they use Clause 6 primatives. E.g. this text from 35.2.1: "The Reconciliation sublayer maps the signals prov primitives defined in Clause 6. The PLS service primitives	er and RS? 5 is inaccurate. All vided at the GMII to mitives provided b	the xMII Clauses o the PLS service by the Reconciliation	The abs SuggestedF Delete " automa converg	stract isn't a su Remedy 'Adoption of Et tion, transporta je low latency elete "automot	itable place for adve thernet into new ma ation (aircraft, railwa and best effort traffi	ertising mate rket areas s ay and heavy c streams." from the list	uch as autom y trucks) has g As they appe	generated a need to
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CI 999 SC 999