C/ 00 SC 0	Р	L	# 145	C/00 SC 0	P13	L <b>0</b>	# 69
Regev, Alon	Ixia			Tretter, Albert	Siemens AG		
Comment Type E Header contains the te SuggestedRemedy	Comment Status D ext "IEEE 802.3br Task Force r	name Task Fo	rce"		Comment Status <b>D</b> page the draft number and the pr/D0.1; 4th April 2014"	date is not corre	ect
Replace "IEEE 802.3b Express Traffic Task F	or Task Force name Task Force Force"	e" with "IEEE	P802.3br Interspersing		e at the following pages: 14, 29	- 42, 44 - 48	
Proposed Response PROPOSED ACCEPT	Response Status W			SuggestedRemedy Please correct Proposed Response	Response Status W		
C/ 00 SC 0	P	L	# 146	PROPOSED ACCE			
Regev, Alon Comment Type E	Ixia Comment Status D			C/ 00 SC 0 Vahid Tabatabaee	P <b>43</b> Broadcom	L	# 136
SuggestedRemedy Replace "D0.1" with "E Proposed Response	exs "IEEE Draft P802.3br/D0.1" D1.0" (or the current version of <i>Response Status</i> <b>W</b>			Comment Type <b>T</b> Need to add checks non-final frag size is non-final frag size is		nt	
PROPOSED ACCEPT Applies to Clause 1 ar	-			SuggestedRemedy			
	P1 Bright House N Comment Status D		# <u>17</u>	octets requires extra burden on the receiv The burden on the r octet requirement fr	Response Status <b>C</b> IPLE. From the discussion, ther a complexity in the transmitter th ver for handling receiving a non- eceiver is not that large. Therefor om the baseline should be remo- up with a reason for the receive	hat can be as gre multiple of 8 dat ore, it was agree oved.	eat or greater than the ta octets in a fragment. ed that the multiple of 8
Proposed Response PROPOSED ACCEPT	Response Status W			requirement. Make	no change to fragment checks.		

CI 00 SC 0

C/ 00 SC 0 Vahid Tabatabaee	P <b>43</b> Broadcom	L <b>46</b>	# 135	C/ 01 SC <sup>2</sup> Regev, Alon	1.3	Р <b>14</b> Іхіа	L 10	# 147
Comment Type <b>T</b> Need to check if cFra SuggestedRemedy	Comment Status A ameCnt = rxFrameCnt and if it d	oes not discard	the frame			Comment Status <b>D</b> ne sentence "Media Access C works s the current title of IEB		
FRAG CNT Add + (C * cFrameC	rxFrameCnt to the transition from nt /= rxFrameCnt) to the transition			SuggestedRemed correct "s" to ' Proposed Respon PROPOSED	"is" ose ACCEPT.	Response Status W		
ASSEMBLY ERROR	R			C/ 01 SC ·		P14	L 18	# 19
00 SC 0	P <b>43</b>	L <b>46</b>	# 134	Hajduczenia, Mare Comment Type	ек Е	Bright House N Comment Status D	Network	
frame SuggestedRemedy This check should be FRAG CNT) there sh Proposed Response	Comment Status D ameCnt matches the rxFrameCr e added in Receive Processing S nould be CHECK FRAME CNT Response Status W PT IN PRINCIPLE. See commen	State Diagram (s		preemptable M MAC Merge s SuggestedRemed	Media Acc ublayer /y . Also rem ose	Control (eMAC) ess Control ove empty definition in line 2 <i>Response Status</i> <b>W</b>	4.	
00 SC 30.14.1	I.7 P 23	L <b>28</b>	# 87	C/ 01 SC <sup>·</sup> Regev, Alon	1.4	<i>P</i> <b>14</b> Ixia	L 18	# 149
retter, Albert	Siemens AG			-	-			
Comment Type E aMACMergeFrameS unknown SMD valu	Comment Status <b>D</b> imdErrorCount: ue or arriving with an SMD_C wh	ien no frame is i	in progress.	In the definitio we are using t frames" (wher both the eMAG	the text <sup>'</sup> "w re XXX is o C & pMAC	Comment Status <b>D</b> ess Media Access Control and hich is the client of a MAC M express or preemptable). As are clients of the same MAC equished by the MAC merges	erge sublayer ti there is only 1 i Merge sublaye	hat handles XXX MAC merge sublayer, er, so the pMAC &
,	d be changed to SMD-C as it is i	named in the rea	st of the document.	SuggestedRemed			-	-
Proposed Response	Response Status W					ent of a MAC Merge sublaye er service interface that hand		to "which is the client
PROPOSED ACCEF	יו.			Proposed Respon	ise	Response Status W		

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 01	Page 2 of 38
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 1.4	1/14/2015 2:17:53 PM
SORT ORDER: Clause, Subclause, page, line		

C/ 01     SC 1.4     P 14     L 21     # 37       Hajduczenia, Marek     Bright House Network	C/ 01 SC 1.4 P 14 L 26 # 150 Regev, Alon Ixia
Comment Type T Comment Status D preemptable Media Access Control could use an acronym	Comment Type E Comment Status D It would be useful to have the definition of MAC Merge sublayer refer to the clause where it is described
SuggestedRemedy change "preemptable Media Access Control" to "preemptable Media Access Control (pMAC)" Proposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy Add referece "(See IEEE Std 802.3, Clause 99)" to the MAC Merge Sublayer definiton in section 1.4 Proposed Response Response Status <b>W</b>
Cl 01SC 1.4P 14L 21# 151Regev, AlonIxiaComment TypeEComment StatusD	PROPOSED ACCEPT. C/ 01 SC 1.4 P14 L 27 # 152 Regev, Alon Ixia Comment Type E Comment Status D
The inclusion of the abbreviation is inconsistent between the definition of "express Media Access Control" and "preemptable Media Access Control" (express Media Access Control includes "(eMAC)" in the definition in section 1.4).	The definition of "MAC Merge sublayer" is referencing "express traffic" and "preemptable traffic", but these terms are not defined anywhere
SuggestedRemedy change "preemptable Media Access Control" to "preemptable Media Access Control (pMAC)" in the definition.	SuggestedRemedy Add the following definitions to section 1.4:
Proposed Response Response Status W PROPOSED ACCEPT.	1.4.x Express Traffic: Traffic frames transmitted through an express Media Access Controller.
Cl 01       SC 1.4       P 14       L 24       # 124         Jones, Peter       Cisco         Comment Type       E       Comment Status       D         Remove blank placeholder definition "1.4.x" between "preemptable Media Access Control"	<ul> <li>1.4.x preemptable Traffic: Traffic frames transmitted through a preemptable Media Access Controller.</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. Controller should be Control</li> </ul>
and "MAC Merge sublayer" SuggestedRemedy remove text	C/ 01 SC 1.4.x P14 L 21 # 137 Mitsuru, Iwaoka Yokogawa Electric Cor
Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type       E       Comment Status       D       late         It is better to add an abbrevation "pMAC" as same as the eMAC.       SuggestedRemedy       Insert "(pMAC)" after "preemptable Media Access Control".       Proposed Response       Response Status       W         PROPOSED ACCEPT.       V       V       V       V       V

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/
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 SC
 1.4.x
 1/1

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C/ 01 SC 1.5 Regev, Alon	Р <b>14</b> Іхіа	L <b>36</b>	# 148	CI 30         SC         P 15         L 3         # 153           Regev, Alon         Ixia
Comment Type E In the text "preemptab	Comment Status D ble Medica Access Control", "N	/ledica" should b	e "Media"	Comment Type E Comment Status D Extra "[" appears
SuggestedRemedy change "Medica" to "N	Media"			SuggestedRemedy Remove the "["
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 01 SC 1.5 Mitsuru, Iwaoka	Р <b>14</b> Yokogawa Ele	L <b>37</b> ectric Cor	# 143	C/         30         SC         30.12.2.1.30         P 20         L 20         # 73           Tretter, Albert         Siemens AG         Siemens AG
- HRT - MMSI SuggestedRemedy Insert following abbre HRT hold response			late	Comment Type       E       Comment Status       D         clause " supports preemption.capability"       It is not clear if the word "capability" is really necessary.         SuggestedRemedy
Proposed Response PROPOSED ACCEP	Response Status W			Proposal: A read-only Boolean value used to indicate whether the given port (associated with the local system) supports preemption;
Cl 1.4 SC 1.4x Tretter, Albert Comment Type E Subclause "1.4x" is w	P 14 Siemens AG <i>Comment Status</i> D ithout any text	L <b>24</b>	# 70	OR A read-only Boolean value used to indicate whether the given port (associated with the local system) supports preemption capability; Proposed Response Response Status W
SuggestedRemedy Please delete Proposed Response PROPOSED ACCEP	Response Status W			PROPOSED REJECT. It is needed. See comment 73

C/ 30 SC 30.12.2.1.30 Page 4 of 38 1/14/2015 2:17:53 PM

<i>CI</i> <b>30</b> Vahid Tabat	SC <b>30.12.2.1.33</b> tabaee	P <b>20</b> Broadcom	L <b>47</b>	# 129	<i>Cl</i> <b>30</b> Hajduczel	SC <b>30.14.1.1</b> nia, Marek	P <b>22</b> Bright House	L <b>7</b> Network	# 48
Comment Ty	vpe T Co	omment Status D			Comment		Comment Status D		discuss
aLldpXd	dot3LocAddFragSize 26 (table 79-7a) and	is defined to specify th section 99.4.4 there is			Word expre	ing could be improved ss oMACEntity is ass	to avoid complex staten igned so as to uniquely io the subordinate managed	dentify an	e of aMACID for the
SuggestedR	Remedy				Suggeste	dRemedy			
over 64	octets required in no	indicate, in units of 64 on-final fragments by th				0	ACID assigned to the extreme to the extreme to the extreme the subordinate managed		, I ,
Proposed R	e local system Response Re DSED ACCEPT.	sponse Status W			PRO	POSED ACCEPT.	esponse Status W	ther a_ID attrib	outes use.
<i>Cl</i> <b>30</b> Vahid Tabat		P <b>21</b> Broadcom	L 38	# 130	asso		eded at all - the containn /lergeEntity. The attribute t.		
Comment Ty al IdpXd	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	omment Status <b>D</b> e is defined to specify t	he size of non-fir	al fragment. However	Delet	e subclause 30.14.1.1	aMACMergeID		
	26 (table 79-7a) and	section 99.4.4 there is			C/ 30	SC 30.14.1.4	P 22	L <b>39</b>	# 103
SuggestedR	Remedy				Tretter, A	lbert	Siemens AG		
over 64 with the Proposed Re	octets required in no local system Response Re	indicate, in units of 64 on-final fragments by the sponse Status <b>W</b>				CMergeStatusEnable status of the MAC Me	Comment Status A => BEHAVIOUR DEFINE rge function may be mod		<i>Discuss</i> ated value via a SET
PROPO	OSED ACCEPT.				Is it re opera		vide the abbility to disabl	e the MAC Merg	ge function via a set
					ls it p	ossible to stop the M	C Merge function in the	middle of a pree	empted frame?
					00	dRemedy Ission needed.			
					Response	e R	esponse Status <b>C</b>		
					disab Enab	le a function. 30.3.1.1	here are other enables the advection of a matter of a matter of a matter of a matter of a fraction of the advection of the ad	an disable the w	hole MAC. Other
			In the case of this object, it is clear from the state machines what happens because disabling changes the value of a variable and no frame loss or corruption happens due the transition.				••		
					No cł	nange needed			
COMMENT	•	ned A/accepted R/reje		I T/technical E/editorial G/ ISE STATUS: O/open W/w	0	d Z/withdrawn	C/ 30 SC 30	.14.1.4	Page 5 of 38 1/14/2015 2:17:53

C/ 30 SC 30.14.1 Tretter, Albert	.4 P 22 Siemens AG	L <b>39</b>	# 102	CI 30 SC Regev, Alon	30.14.1.6	Р <b>23</b> Іхіа	L 18	# 156
	Comment Status R nable => APPROPRIATE SYN ransmit preemption status is u			Comment Type	o section 99.4.	Comment Status <b>D</b> 7.7 should indicate that	it's a reference (i.	e. change "(99.4.7.7)"
How can a system be	e in this state?			SuggestedReme change "(99	edy .4.7.7)" to "(se	e 99.4.7.7)"		
SuggestedRemedy				Proposed Respo	onse R	esponse Status W		
It should be named "	not supported"			PROPOSED	ACCEPT.			
Response REJECT.	Response Status C			C/ <b>30</b> SC Hajduczenia, Ma	<b>30.14.1.6</b> Irek	P 23 Bright House	L <b>18</b> e Network	# 49
Other similar status a determine the status.	attributes allow for the possibil	ity that managem	ient is unable to	Comment Type	т	Comment Status R		
	which can take the values ex mode			Reference to	o state diagran	n can be simplified: "AS is entered (99.4.7.7)."	SEMBLY ERROR	state of the Receive
unknown Duplex stat				SuggestedReme	edy			
C/ 30 SC 30.14.1	.4 P 22	L <b>40</b>	# 126	Change to re	ead: "ASSEME	LY ERROR state is ent	ered (see Figure	99–5)."
lones, Peter	.4 F ZZ Cisco	L <b>40</b>	# 120	Response	F	esponse Status C		
<i>Comment Type</i> <b>T</b> Why do we need the	Comment Status D value of unknown for aMACM	ergeStatusEnab	e. It's either on of off.			lauses, it is preferable t ne reader of a paper cop		
	tting to unknown have?			C/ 30 SC	30.14.1.7	P 23	L <b>28</b>	# 50
SuggestedRemedy Remove the unknow	a voluo			Hajduczenia, Ma	irek	Bright House	e Network	
				Comment Type	т	Comment Status A		
Proposed Response PROPOSED REJEC	Response Status W T. See comment # 102					"Incremented each tim ssing State Diagram is		
C/ 30 SC 30.14.1	.5 P 23	L2	# 26	SuggestedReme	edy			
Hajduczenia, Marek	Bright House	Network			ead: "The cunt red (see Figur	er is incremented each e 99–5).;"	time the BAD FR/	AG
	Comment Status D ng" value should be indented a new value on its own.	accordingly, so tl	nat the end of it (in line	Response ACCEPT IN		Pesponse Status <b>C</b> Leave as a subclause re	eference	
, SuggestedRemedy	e being activated" to align it w	ith the beginning	of the word "transmit"					
Proposed Response PROPOSED ACCEP	Response Status W T.							
	ired ER/editorial required GR dispatched A/accepted R/reje					CI 3 SC 3		Page 6 of 38

SORT ORDER: Clause, Subclause, page, line

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Comment Status D nould include an opening parenthesis as well as see 99.4.7.7)" Response Status W P23 L 39 Siemens AG Comment Status A kCount: FrameAssOkCount and aMACMergeFrameAsso total number of received fragmented MAC frame ounter for the object "aMACMergeFrameAssOf	# <u>105</u> sErrorCount es.	Suggested chang Proposed PROP Cl 30 Tretter, All Comment aMAC A cour Are th	Ites indicates" - t IRemedy e "indicates" to "r Response OSED ACCEPT. SC 30.14.1.9 Dert Type E MergeFrameExp at of MAC frames	Response Status P2 Sierr Comment Status ressCountTx: transmitted by the	w 23 <i>L</i> 49 nens AG 5 A	# 88 Discuss
Response Status W P 23 L 39 Siemens AG Comment Status A kCount: FrameAssOkCount and aMACMergeFrameAss btal number of received fragmented MAC frame	sErrorCount es.	chang Proposed PROP Cl 30 Tretter, Alt Comment aMAC A cour Are th	e "indicates" to "r Response OSED ACCEPT. SC 30.14.1.9 pert Type E MergeFrameExp at of MAC frames	Response Status P2 Sierr Comment Status ressCountTx: transmitted by the	23 <i>L</i> 49 nens AG S <b>A</b>	
P 23 L 39 Siemens AG Comment Status A kCount: FrameAssOkCount and aMACMergeFrameAss otal number of received fragmented MAC frame	sErrorCount es.	C/ 30 Tretter, Alt Comment aMAC A cour Are th	OSED ACCEPT. SC 30.14.1.9 pert <i>Type</i> E MergeFrameExp nt of MAC frames	P 2 Siem Comment Status ressCountTx: transmitted by the	23 <i>L</i> 49 nens AG S <b>A</b>	
Siemens AG Comment Status A kCount: FrameAssOkCount and aMACMergeFrameAss otal number of received fragmented MAC frame	sErrorCount es.	Tretter, Alt Comment aMAC A cour Are th	bert <i>Type</i> <b>E</b> MergeFrameExp ht of MAC frames	Sierr Comment Status ressCountTx: transmitted by the	nens AG	
kCount: FrameAssOkCount and aMACMergeFrameAss otal number of received fragmented MAC frame	es.	aMAC A cour Are th	MergeFrameExp nt of MAC frames	ressCountTx: transmitted by the		Discuss
ounter for the object "aMACMergeFrameAssO	kCount" located?		o from on from the			
		i ne e		e eMAC not counted of the MAC Merge la	d in the eMAC itself? ayer.	
(2)Question to the statement that the sum of aMACMergeFrameAssOkCount and aMACMergeFrameAssErrorCount attributes indicates the total number of received				t this counter counts	s the express frames r	received from the eMAC.
	tead of SMD-S)?				С	
t. Because of the problem we have with the de	fragmentation	transn	nitted. The counter	er was in the accept		
		develo		ient model.		
		Delete	the counter			
Response Status C		C/ <b>30</b>	SC 30.14.1.9	P	23 <i>L</i> 49	# 51
	locariation might	Hajduczen	ia, Marek	Brigh	nt House Network	
		Comment	Туре Т	Comment Status	B D	
and when an unfragmented frame completes.	0			s transmitted by the	e express MAC.;" - we	have a nice acronym for
	the easiest way to	Chang	e to read: "A cou	int of MAC frames to	ransmitted by eMAC.;	, <b>n</b>
)					\ <b>M</b> /	
ommenter points out, it is approximate since so not receiving the start of the initial fragment) w	ome errored				**	
	rrorCount attributes indicates the total number : ents discarded due to wrong SMD (SMD-C ins t. Because of the problem we have with the de <i>Response Status</i> <b>C</b> a state. Perhaps you are pointing out that the c ounter as the same state is on direct state mach ounter as the same state is entered when a fra and when an unfragmented frame completes. machine description for error conditions as it is ) the receiver can come to knowing how many ommenter points out, it is approximate since so not receiving the start of the initial fragment) we tive, delete it. ER/editorial required GR/general required T	rrorCount attributes indicates the total number of received : ents discarded due to wrong SMD (SMD-C instead of SMD-S)? t. Because of the problem we have with the defragmentation <i>Response Status</i> <b>C</b> a state. Perhaps you are pointing out that the description might er is incremented. There is no direct state machine description for ounter as the same state is entered when a fragmented frame and when an unfragmented frame completes. machine description for error conditions as it is the easiest way to ) t the receiver can come to knowing how many frames were ommenter points out, it is approximate since some errored not receiving the start of the initial fragment) won't be counted. tive, delete it. ER/editorial required GR/general required T/technical E/editorial C	Image: Indicates and Content and Control of a MACMerger rameAssOkCount and Control of a source of the problem we have be total number of received       Image:	rrorCount attributes indicates the total number of received ents discarded due to wrong SMD (SMD-C instead of SMD-S)? t. Because of the problem we have with the defragmentation <i>Response Status</i> C . a state. Perhaps you are pointing out that the description might for is incremented. There is no direct state machine description for ounter as the same state is entered when a fragmented frame and when an unfragmented frame completes. machine description for error conditions as it is the easiest way to ) t the receiver can come to knowing how many frames were pormenter points out, it is approximate since some errored not receiving the start of the initial fragment) won't be counted. We delete it. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description of the initial fragment) won't be counted. I assume it is ment that the description is a performance of the initial fragment) won't be counted.	The true sum of a MACMerger rameAssockCount and the sum of a maxAcMerger rameAssockCount and the sum of the problem we have with the defragmentation T assume it is ment that this counter counts? Response Status C ACCEPT IN PRINCIPLE. Yes, this counter is needed since each MA transmitted. The counter was in the accept developed the containment model. Delete the counter C/ 30 SC 30.14.1.9 P: Hajduczenia, Marek Bright and when an unfragmented frame completes. nachine description for error conditions as it is the easiest way to of the proints out, it is approximate since some errored not receiving the start of the initial fragment) won't be counted. ER/editorial required GR/general required T/technical E/editorial G/general	Item that the sum of aiMACMergePraneAssOccount and         Item that the description for entropy of the problem we have with the defragmentation         Item that the description might or is incremented. There is no direct state machine description for ounter as the same state is entered when a fragmented frame and when an unfragmented frame completes.         machine description for error conditions as it is the easiest way to         )           the receiver can come to knowing how many frames were ommenter points out, it is approximate since some errored not receiving the start of the initial fragment) won't be counted.         ER/editorial required GR/general required T/technical E/editorial G/general

TIFE. INtechnical required Entreditional required GR/gene	rai required Triechnical L'eulional Grgeneral	C/ 30	Faye / UI SO
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 30.14.1.9	1/14/2015 2:17:53 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 30 SC 3	30.14.1.xx	P <b>24</b> Siemens AG	L <b>40</b>	# 104	<i>Cl</i> <b>30</b> Hajduczeni		<b>30.2.2.1</b> ek	P <b>15</b> Bright Hou	L <b>17</b> Ise Network	# 38
Comment Type	T Comme	nt Status A		discuss	Comment T		T	Comment Status D not read right: "If oMACM	AcrosEntity is imple	montod on
	vas negotiated at sta							ress MAC. IfoMACMerge		menteu, an
SuggestedRemed	y				implem oMACN			Entity for the pMAC, is c	ontained in the	
The proposed	object should be ad	lded.			Suggested	-	-			
Response	,	e Status C			00	-	,	own in >><<		
Since the TLV	egotiation. The trans	to be sent once pre	emption is activ	e, add an attribute for	< <oma< td=""><td>CMerge</td><td>eEntity is</td><td>mplemented, &gt;&gt;oMACE implemented, an oMACI ergeEntity.</td><td></td><td></td></oma<>	CMerge	eEntity is	mplemented, >>oMACE implemented, an oMACI ergeEntity.		
	e. Should there also he link partner trans		he link partner a	ddFragSize (the one	Proposed F	•		Response Status W	nment #121	
	30.2.2.1	P 15	L 16	# <u>1</u> 21	C/ 30	50.2	30.2.2.1	P15	L 17	# 138
Jones, Peter		Cisco			Mitsuru, Iwa		50.2.2.1		Electric Cor	# 136
Comment Type		nt Status A			Comment 7		Е	Comment Status D		la
The text adde	d to the end of the d		Sentity doesn't	make sense.				ns several grammarical	errors.	
	ure 30–3– DTE Sy	stem entity relation	ship diagram" be	elow, I think this is	Suggested			<b>j</b>		
	eEntity is implement ACMergeEntity, wh				Modify If oMA	the inse CMerge	erted text Entity is i	as follows: mplemented, an oMACE		
	У					-		an oMACEntity for the p	MAC is contained in	n the oMACMergeEntity
SuggestedRemed	t text and text ion co	omment above, cor	rect as required.		Proposed F	,		Response Status W		
					PROP	OSED A	ACCEPT	IN PRINCIPLE. See Cor	nment #121	
SuggestedRemed Review currer Response		e Status C								

C/ 30 SC 30.2.2.1

C/ 30         SC 30.2.2.1         P 15         L 26         # 39           Hajduczenia, Marek         Bright House Network	C/ 30         SC 30.2.2.1         P 15         L 26         # 139           Mitsuru, Iwaoka         Yokogawa Electric Cor
Comment Type       T       Comment Status       A         Text of the description for oMACMergeEntity could be simplified for clarity without loss of information       SuggestedRemedy         SuggestedRemedy       Revise as follows:       If oMACMergeEntity is implemented, oMACMergeEntity is represented by two oMACEntity objects: one for an express MAC (eMAC) and one for a preemptable MAC (pMAC) (see Clause 99). oMACMergeEntity managed object class provides the management controls necessary for the MAC Merge sublayer.         Response       Response Status       C	Comment Type       T       Comment Status       D       late         The containment relationship between oMACMergeEntity and two oMACNetity objects specified here differs from the contaiment relation ship specified in the Figure 30-3 (see 30.2.3).       SuggestedRemedy       Modify the first sentense as follows:       If implemented, a single instance of oMACMergeEntity is contained within oMACEntity object for an express MAC (eMAC) and contains oMACEntity object for a preemptable MAC (pMAC)(see Clause 30.2.3).         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. See Comment # 39
ACCEPT IN PRINCIPLE. If implemented, a single instance of oMACMergeEntity is contained within oMACEntity object for an express MAC (eMAC) and contains an instance of oMACEntity object for a preemptable MAC (pMAC) (see Clause 99). oMACMergeEntity managed object class provides the management controls necessary for the MAC Merge sublayer.	C/ 30       SC 30.2.2.1       P 15       L 5       # 20         Hajduczenia, Marek       Bright House Network       E       Comment Status D         Editorial instruction is not correct: "Replace the description of oMACEntity with the       E       Comment Status D
Cl 30       SC 30.2.2.1       P 15       L 26       # 122         Jones, Peter       Cisco       Cisco       # 122         Comment Type       T       Comment Status       A         The definition for "oMACMergeEntity" says "a single instance of oMACMergeEntity is contained within two oMACEntity objects: one for an express MAC, eMAC; and one for a preemptable MAC, pMAC" which contradicts to "Figure 30–3— DTE System	following:" SuggestedRemedy Change the editorial instruction to read: "Modify the description of oMACEntity as follows:" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
entity relationship diagram" below. I think oMACMergeEntity contains an oMACEntity for the pMAC. SuggestedRemedy	C/ 30         SC 30.2.3         P 17         L 1         # 140           Mitsuru, Iwaoka         Yokogawa Electric Cor
Review definitions and containment model and correct inconsistencies.         Response       Response Status         C         ACCEPT IN PRINCIPLE. See Comment # 39	Comment Type       E       Comment Status       D       late         In Figure 30-3, a line between oOAM and oMACEntity shall denote one-to-one relationship.       SuggestedRemedy       Add arrow to the line between oOAM and oMACEntity.       Proposed Response       Response Status       W

C/ 30 SC 30.2.3

C/ 30         SC 30.2.3         P 17         L 1         # 21           Hajduczenia, Marek         Bright House Network	C/ 30         SC 30.2.3         P 17         L 48         # 40           Hajduczenia, Marek         Bright House Network
Comment Type E Comment Status D Consider adding red boxes around changes in the said figure to make sure that everybody is aware of the necessary modifications to the figure.	Comment Type <b>T</b> Comment Status <b>D</b> pMAC=Preemptive MAC - this is already defined. No need to repeat
luggestedRemedy	SuggestedRemedy Remove "pMAC=Preemptive MAC"
Mark the said red boxes as Editorial Notes to be removed prior to publication. They will be very helpful during the review process.	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT IN PRINCIPLE. Either 2 red boxes or a red polygon line will be used to outline the added material.	Cl 30SC 30.2.5P 18L 19# 41Hajduczenia, MarekBright House Network
C/ 30         SC 30.2.3         P 17         L 1         # 141           Mitsuru, Iwaoka         Yokogawa Electric Cor         1	Comment Type <b>T</b> Comment Status <b>D</b> There are no changes to Table 30–8 shown at this time.
Comment Type         E         Comment Status         D         Iate           In Figure 30-3, oMACMergeEntity is specified in 30.14.1, not 30.3.9.         Iate         Iate	SuggestedRemedy Remove Table 30–8
	Proposed Response Response Status W
Replace "30.3.9" with "3014.1". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 30.14.1	PROPOSED REJECT. Table 30-8 is a new table for the package for the objects for the new TLV - that is why the editing instruction says Insert Table 30-8. A new table was started for additional packages because Table 30-7 was too wide to add an additional column.
C/ 30 SC 30.2.3 P 17 L 48 # 154	Cl 30 SC 30.2.5 P18 L 40 # 155
egev, Alon Ixia	Regev, Alon Ixia
Comment Type       E       Comment Status       D         We should not be using the name "preemptive MAC". We should only be using premptable MAC or express MAC         SuggestedRemedy         replace "pMAC = Preemptive MAC" with "pMAC = Preemptable MAC"	Comment Type         T         Comment Status         D           In table 30-8, the Capabilities aLldpXdot3LocPreemptSupported, aLldpXdot3LocPreemptEnabled, aLldpXdot3LocPreemptActive, and aLldpXdot3LocAddFragSize are repeated twice. I believe the second set should reflect the remote (rather than the local) capabilities
roposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE. Delete instead (see comment # 40)	Rename the second "aLldpXdot3LocPreemptSupported" to "aLldpXdot3RemPreemptSupported"
	Rename the second "aLldpXdot3LocPreemptEnabled" to "aLldpXdot3RemPreemptEnabled"
	Rename the second "aLldpXdot3LocPreemptActive" to "aLldpXdot3RemPreemptActive"
	Rename the second "aLldpXdot3LocAddFragSize" to "aLldpXdot3RemAddFragSize"
	Proposed Response Response Status W PROPOSED ACCEPT.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial C COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/	

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/ 30     SC 30.2.5     P 18     L 40     # 125       Jones, Peter     Cisco	C/ 30         SC 30.2.5         P 19         L 1         # 22           Hajduczenia, Marek         Bright House Network
Comment Type       E       Comment Status       D         Table 30–8—LLDP capabilities (additional packages) has copy and paste errors, with two copies of the aLldpXdot3Locxxx attributes, the second set should be aLldpXdot3Remxxx         SuggestedRemedy         Flx table         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         In the last 4 lines of the table, replace Loc with Rem	Comment Type       E       Comment Status       D         Table 30–9 uses incorrect font format for individual entries:       a       M A C M e rg e I D         aMACMe rg eSupport       a       MACMe rg eSupport         aMACMe rg eStatusVerify       a       MACMe rg eStatusEn able         aMACMe rg eStatusTx       a       M A C M e rg e F r a m eAssErrorCount         aMACMergeFrameSmdErrorCount       a       MACMergeFrameAssOkCount
C/ 30     SC 30.2.5     P 18     L 5     # 71       Tretter, Albert     Siemens AG       Comment Type     E     Comment Status     D	aMACMergeFrameExpressCountTx aMACMergeFrameExpressCountRx aMACMergeFragCountRx aMACMergeFragCountTx aMACMergeHoldCount
The table 30-9 is referenced twice.  SuggestedRemedy One of the references should be to table 30-8?  Proposed Response Response Status W  DD00005D A005DD Yes the first isotographic benchber Table 30.0	SuggestedRemedy Please apply proper formatting per 802.3 template Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT. Yes, the first instance should be Table 30-8	C/ 30         SC 30.2.5.0.1         P 19         L 1         # 72           Tretter, Albert         Siemens AG
	Comment Type         E         Comment Status         D           Table 30-9 is somehow placed in the description of the aLldpXdot3PortConfigTLVsTxEnable object. I assume this table should be placed before or after this description.
	SuggestedRemedy Please correct
	Proposed Response Response Status W PROPOSED REJECT. Tables float to where they fit

C/ 30 SC 30.2.5.0.1 Page 11 of 38 1/14/2015 2:17:53 PM

C/ 30         SC 30.2.5.0.1         P 19         L 50           Jones, Peter         Cisco	# 107	C/ <b>79</b> SC <b>79.3</b> Mitsuru, Iwaoka	P <b>25</b> L <b>12</b> Yokogawa Electric Cor	# 142
Comment Type E Comment Status X Editor's Note suggests "this should be changed to something in the string, the mapping of bits to TLVs is: followed by a list of the TLVs]". I agree with		Comment Type <b>E</b> Table 1 is not exist in cl SuggestedRemedy	Comment Status <b>D</b> ause 79. It is Table 79-1.	late
SuggestedRemedy Text similar to the following	N - 1-	As in comment. Proposed Response PROPOSED ACCEPT.	Response Status W	
Starting with the first bit in the string, the mapping of bits to TI bit 0: MAC/PHY configuration/status TLV transmit is enabled bit 1: Power via MDI TLV transmit is enabled bit 2: deprecated Link Aggregation TLV transmit is enabled bit 3: Maximum Frame Size TLV transmit is enabled bit 4: EEE TLV transmit is enabled bit 4: EEE TLV transmit is enabled		Cl <b>79</b> SC <b>79.3</b> Hajduczenia, Marek Comment Type <b>E</b> Wrong table number - it	P 25 L 13 Bright House Network Comment Status D t is Table 1 and should be Table 79-1	# 24
bit 5: Additional Ethernet Capabilities TLV is enabled. Proposed Response Response Status W Discuss with Adam Healy Cl 30 SC 30.2I.5.0.1 P 18 L 46	5	SuggestedRemedy Per comment Proposed Response PROPOSED ACCEPT.	Response Status W	
NoName         Comment Type       T       Comment Status       D         It turns out there were two EEE TLVs missing from the table a added in 802.3-Rev.       Also the subclause number is incorrect. It should be 30.12.1.*         SuggestedRemedy       Correct the base text to match 802.3-Rev, underscore change seventh bit for Additional Ethernet Capabilities TLV and corre         Proposed Response       Response Status       W	1.1 es from that base text, use the	Cl <b>79</b> SC <b>79.3</b> Hajduczenia, Marek Comment Type <b>T</b> Wrong reference in the SuggestedRemedy Is "Table 79.3.6" and sh Proposed Response PROPOSED ACCEPT.	Response Status W	# 42
PROPOSED ACCEPT. C/ 79 SC 79.3 P 25 L 10	# 23	Cl <b>79</b> SC <b>79.3</b> Regev, Alon	Р <b>25</b> <i>L</i> <b>7</b> Ixia	# 158
Hajduczenia, Marek     Bright House Network       Comment Type     E     Comment Status     D       Remove empty line 9/10     SuggestedRemedy		Comment Type E in the editing instruction SuggestedRemedy add space between "in"	Comment Status <b>D</b> is, space is missing between "in" and "Table 1" and "Table 1"	
Plese scrub the whole draft and remove all empty lines addec Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	l without any need.	Proposed Response PROPOSED ACCEPT.	Response Status W	
TYPE: TR/technical required ER/editorial required GR/general re COMMENT STATUS: D/dispatched A/accepted R/rejected RE SORT ORDER: Clause, Subclause, page, line	•	6	C/ 79 SC 79.3	Page 12 of 38 1/14/2015 2:17:53 F

C/ <b>79</b> SC <b>79.3.6.1</b> Hajduczenia, Marek	P <b>25</b> Bright House Netv	L <b>42</b> vork	# 25	<i>Cl</i> <b>79</b> Regev, Alon	SC 79.3.6.2	P <b>25</b> Ixia	L <b>48</b>	# 159
	<i>Comment Status</i> <b>D</b> e 79–7" and should be "Table				an editor's not	Comment Status I e indicating that an ad vas added, the editor's	ditional fragment	size field may be needed in
uggestedRemedy				SuggestedRe				loved.
roposed Response F PROPOSED ACCEPT.	Response Status W			Proposed Re		Response Status	w	
X <b>79</b> SC <b>79.3.6.1</b> lajduczenia, Marek	P <b>25</b> Bright House Netw	L <b>45</b> vork	# 43	C/ <b>79</b>	SC 79.3.6.2	P 26		# 44
"The bits reserved for futu Reserved octets shall not	Comment Status R ire standardization shall be set be transmitted and shall be ig	nored on recei	pt. Any octets not	Hajduczenia, <i>Comment Ty</i> Title of T		Comment Status	House Network D	
received shall be treated a treated as all zero." really a situation where some or	as all zero." - it is not clear what means in this context. The for ctets are not transmitted and th	at "Any octets mat of the TL\	not received shall be / is defined. Is there		Allocation of t	its in Additional Ether	net Capabilities T	TLV
receive side? Taht is just l uggestedRemedy Remove "Any octets not re	eceived shall be treated as all	zero."			•	Response Status	W	
	Response Status C				al Ethernet cap nment #109)	abilities/status which i	is consistent with	the other table names.
additional capabilities. That octets that may be added capabilities using later oct	esigned so that it can be exten at is why it has a variable rathe to support that are all reserven tets doesn't need to send them vith later additions). This text is	er than fixed le d. Something r (and might no	ngth. The future not supporting ot even know that the	Cl <b>79</b> Jones, Peter Comment Ty	SC <b>79.3.6.2</b>	P <b>26</b> Cisco Comment Status	-	# 109
79 SC 79.3.6.1	P 25	L 48	# 108		sing title to tabl ies/status"	e "Table 79–7a—", I t	hink it should be '	"Additional Ethernet
ones, Peter	Cisco Comment Status D			SuggestedRe Fix table	-			
51	regarding larger min fragment	size, text is in	the draft.	Proposed Re		Response Status	w	
suggestion to allow for a r group agrees to that, a va	(to be removed prior to publica eceiver to request a larger mir lue for minimum fragment size indicating size as a multiple of	imum fragmer	nt size. If the task	PROPOS	SED ACCEPT.			
uggestedRemedy								
reomve editors note.								
Proposed Response F PROPOSED ACCEPT.	Response Status W							
	ER/editorial required GR/gene ttched A/accepted R/rejected lause, page, line			-	Z/withdrawn		CI 79 SC 79.3.6.2	Page 13 of 38 1/14/2015 2:17:53

C/ 79 SC 79.3.6.2	P 26	L1	# 45	CI 79	SC 79.4.2	P 26	L <b>29</b>	# 160
łajduczenia, Marek	Bright House	e Network		Regev, A	on	Ixia		
Comment Type <b>T</b> C All other TLvs are defined f inverse convention.	<i>Comment Status</i> <b>R</b> rom the top bit (15) dow	nwards and this	one TLV adopts an	Commen Table	51	Comment Status <b>D</b> e translation from TLV data to t	he LLDP objects	S.
SuggestedRemedy Align to other TLVs, and sta	art definition bits from 1	5 going towards (	).	this T	LV field sets the	indicate the "additional fragme management object aLldpXdo e" in the state machine or (see	ot3LocAddFragS	
Response R	esponse Status <b>C</b>				dRemedy	, , , , , , , , , , , , , , , , , , ,	,	
REJECT. The existing TLV tables are			est numbered bits on	00		ld the following data into Table		
top. Tables 79-2, 79-3 and Since 3 of the 4 similar table			me.	preer	nption capability	LLDP Local System Group support aLldpXdot3LocPreem status aLldpXdot3LocPreem	nptSupported ptEnabled	ct class attribute
C/ <b>79</b> SC <b>79.3.6.2</b> Hajduczenia, Marek	P <b>26</b> Bright House	L 1 Network	# 46	addit	onal fragment s	active aLldpXdot3LocPreem ze aLldpXdot3LocAddFrag		
Comment Type <b>T</b> C	Comment Status R			In se				
Some of features in Table 7	'9-7a have confusing de	escription			<i>Response</i> POSED ACCEP	Response Status <b>W</b> T.		
SuggestedRemedy	(			01.70	00 <b>70 F</b>	D.07	1.04	# 47
Change description of bit 0 Change description of bit 1				C/ 79 Haiducze	SC <b>79.5</b> nia, Marek	P 27 Bright House	L 21 Network	# 47
Change description of bit 3	5 to "Preemption fragm			•		5	Network	
fragment size needed by th assign proper values to ind bit 3 4 5 fragment size		olumn. Insert the	following map and	Commen PICS	<i>Type</i> <b>T</b> are missing	Comment Status A		
0 0 0 64				Suggeste	dRemedy			
0 0 1 0 1 0 0 1 1 1 0 0 1 0 1 1 1 0 1 1 1				a) Th and c of ad b) Th c) Re	e additional Ethe urrent status ditional Ethernet e bits reserved f served octets sl	r the following shall statements ernet capabilities field shall cor capabilities on the local IEEE or future standardization shall hall not be transmitted and sha d contain no more than one Ad	ntain a bitmap th 802.3 LAN station be set to zero an Il be ignored on	on. nd ignored on receipt. receipt.
Response R	esponse Status <b>C</b>			Respons	9	Response Status C		
REJECT. The editor found it confusin preempting and in other cas capability" is used when ref capability is used for the ac	ses meant the act of pre erring to the ability to p	eempting. For cla	rity, "preemption	ACCI	EPT. Also produ	ce the Clause 99 PICS		
		h (h						

Additional fragment size is clear and consistent with the usage of the field in Clause 99.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ <b>79</b>	Page 14 of 38
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 79.5	1/14/2015 2:17:53 PM
SORT ORDER: Clause, Subclause, page, line		

C/ 99 SC 99	P6 L13	# 18	CI 99 SC 99.1	P 29	L <b>20</b>	# 52			
lajduczenia, Marek	Bright House Network		Hajduczenia, Marek	Bright House	Network				
Comment Type E	Comment Status D		Comment Type T	Comment Status R					
"Task Force name" is not	populated in many locations in the draft	- 50 hits altogether		is sentence. It is not the p ble traffic, but MMSI primiti					
SuggestedRemedy Please use the proper nar	ne of the Task Force.		and then express traffic c		ve that puts preer				
	Response Status W		SuggestedRemedy						
PROPOSED ACCEPT.			primitive is asserted, tran	ead: "When the preemptio smission of preemptable t nains asserted. This allow	raffic from pMAC	is suspended as long			
C/ 99 SC 99.1 łajduczenia, Marek	P 29 L 15 Bright House Network	# 28		as the MMSI primitive remains asserted. This allows eMAC to transmit any quere express traffic. Transmission of preemptable traffic is resumed once the MMIS pre- deasserted."					
Comment Type E	Comment Status D		Response	Response Status C					
Missing space in "frames.			REJECT.						
SuggestedRemedy				traffic does cause suspeneduled traffic. When there					
Change to "frames. The N	46451"			rrive, the MMSI primitive of					
Ū.			that case, preemption wo	orks fine without use of the	MMSI primitive.				
	Response Status W		The MMSI primitive enab	les lower latency when 80	2 10by Enhancer	ments for Scheduled			
PROPOSED ACCEPT.			Traffic is used. The MSS	I can be used to provide lo	ower latency for so	cheduled traffic by			
C/99 SC 99.1	P 29 L 15	# 29		the schedule. This allows					
lajduczenia, Marek	Bright House Network		scheduled trainc is ready	to transmit so it experience	ses no preemplior	natericy.			
Comment Type E	Comment Status A		This is all what was adop	ted in the baseline.					
	able frames can be held" - this language		C/ 99 SC 99.1	P 29	L 22	# 161			
is likely an incorrect word	in here, and "suspend" should be used i	instead.	Regev, Alon	Ixia					
uggestedRemedy			Comment Type E	Comment Status D					
	of preemptable frames may be suspend		<i>,</i> ,	reemption is active, MAC	Merge allows fram	nes provided over an			
	ause also specifies a MAC Merge Servic can hold or release transmission of pree		express MAC service inte	erface (express traffic) to the	he eMAC to interr	rupt transmission of a			
"This clause also specifies	a MAC Merge Service Interface (MMS			transmitted by the pMAC					
that suspends transmission	on of preemptable frames."			nes are received by the M	AC merge sublay	er nom the emac			
•	Response Status C		SuggestedRemedy	10					
ACCEPT IN PRINCIPLE.			change "to the eMAC" to	"Trom the emac"					
	s a MAC Merge Service Interface (MMS es transmission of preemptable frames.			Response Status W					
			PROPOSED REJECT.						

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

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SC 99.1	1/14/2015 2:17:53 PM

C/ 99 SC 99.1 P 29 L 27 #	# 12	C/ 99 SC 99.1	P 29	L 36	# 13
Hajduczenia, Marek Bright House Network		Hajduczenia, Marek	Bright House		# 10
Comment Type TR Comment Status R Text in lines 27-31 describes the operation with preemption disabled. In this that MAC Merge does nothing more than add more queues to the system, a to transmit through either path, though without preemption option. I believe t	allowing clients	Comment Type TR C "When the MAC Merge sub supported, the MAC Merge defined in 90.5"			
unnecessary and does not fit into the objectives of this TF.		SuggestedRemedy			
SuggestedRemedy         Remove lines 27-31. Insert the following text: "When the preemption function eMAC is disabled and MAC Merge exchanges data only with pMAC."         Response       Response Status         C       REJECT.         This behavior was strongly supported during discussions that lead to formula		This topic was not discusse have been engaged. For th problem really is, (b) make confusion with two location Suggest to: a) remove lines 36-42 b) remove TSSI from Figure	is statement to work, we changes to Clause 90 a s where TSSI is hooked e 99-1	e would need to (a and TSSI definitio I and defined in tv	a) explore what the n, and not create vo different places.
baseline. It is in the baseline. It provides a benefit. It enables the MAC Client to see a consistent interface regardless of whethe enabled or not. This simplifies the transtion to preemption active.	er preemption is	<ul> <li>c) make necessary change</li> <li>d) once that is done and ag</li> <li>99 showing relationship wit</li> <li>Merge in place.</li> </ul>	reed with, add subclaus	se (not just a brief	statement) to Clause
It isn't adding queues - there is no queue below the MAC Client interface and	d the number	Response R	esponse Status C		
of service classes supported above the MAC Client interface is independent of whether there are two interfaces or one.		ACCEPT IN PRINCIPLE. Broader 802.3 review can o ballot is for. The TSSI is broken without able to tell whether an indic pMAC.	this change because th	here are cases wh	here one will not be
		Also, only the MAC Merge active. The descriptions in the various generic MII sub	Clause 90 apply equally		
		The gRS is not part of the I	PHY.		
		To make this more clear to	a reader of Clause 90,	add to the end of	the first paragraph of

90.5. When a MAC Merge sublayer (see Clause 99) is present, the term generic Reconciliation Sublayer (gRS) is used to denote the MAC Merge sublayer rather than the RS Sublayer to which the MAC Merge sublayer connects.

CI 99 SC 99.1

C/ 99 SC 99.1 P 29 L 38 # 127	C/ 99 SC 99.1.1 P 29 L 45 # 31
Jones, Peter Cisco	Hajduczenia, Marek Bright House Network
Comment Type <b>T</b> Comment Status <b>D</b> There is an editors note regarding TSSI and resolving back to eMAC or pMAC.	Comment Type ER Comment Status A Goals are only important during the life of the project and become meaningless once th amendment is approved and merged into the main document.
I support adding optional parameters to TSSI to indicate eMAC or pMAC, e.g., an optional parameter on TS_TX.indication() and TS_RX.indication(). Need to cross check with 802.1 folks if they cawewere, may need to show up in 802.1Qbu	SuggestedRemedy Remove 99.1.1. Goals and objectives are documented in project documentation and the belong there.
SuggestedRemedy	Response Response Status C
Discussion in group and with 802.1 to resolve direction.	ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. The editor's not should have been removed. We had that discussion in November and	Cl 99         SC 99.1.1         P 30         L 36         # 131           Vahid Tabatabaee         Broadcom
decided to use the parameter.	Comment Type TR Comment Status A
Comment Type       T       Comment Status       D         Editor's Note (to be removed prior to publication) - There might be an ambiguity of whether a TimeSync indication was due to an express or preemptable frame. To resolve that, one of the following is needed:       •         •       two TSSIs, one for each MAC,       •       •         •       an optional parameter indicating express or preemptable added to the TSSI primitives in Clause 90, or       •         •       an additional value such as P_DETECTED should be added for the SFD parameter	<ul> <li>support cut-through? The minimum number of octets for a fragment can be set to be late than minimum packet size (i.e. 64B) therefore the latency for express traffic can be large than 2 times the minimum packet size plus IPG. Even when pre-emption is supported, 64B minimum fragment size, latency can be larger than the stated value because we had to add the packet processing latency.</li> <li>Proposed change is to make the latecny goal more general.</li> <li>SuggestedRemedy</li> <li>Provide a maximum latency to initiating transmission of an express frame that arrives to empty queue which is independent of the size of packet in the way of its transmission (if the preemptable packet)</li> </ul>
I think at the last Plenary Meeting (11/2014) we already decided together with 802.1 TSN to	Response Response Status C
add an optional parameter to the TSSI primitives in Clause 90. This optional parameter indivates express or preemptable.	ACCEPT IN PRINCIPLE. See comment #31 resolution which deletes the subclause.
Proposed Response Response Status W	Remainder of the response is only relevant if the proposed resolution of 31 isn't accepted
PROPOSED ACCEPT IN PRINCIPLE. Remove the editor's note	This is only specifying latency from the MAC Client interface to the MDI. Bridge queues and bridge latency (e.g. packet processing time) is out of scope. It isn't clear what change would satisfy the commenter as no text is proposed. Either: leave unchanged (because it can provide that latency when the receiver is configured support minimum fragment size of 64) modify to add plus receiver additional fragment size or delete goals subclause

C/ 99 SC 99.1.1 Page 17 of 38 1/14/2015 2:17:53 PM

	2.00	1.00	"					"
C/ 99 SC 99.1.1 Jones, Peter	<i>P</i> <b>30</b> Cisco	L <b>36</b>	# 110	C/ <b>99</b> Hajduczenia	SC 99.1.3	P3 Bright	1 L 36 House Network	# 67
Comment Type E Bullet a) says "express fr which is not true when th SuggestedRemedy	Comment Status <b>D</b> rame less than two times the peer asks for addFragS	ize != 0.		<i>Comment T</i> Figure S Transm functior	Type <b>TR</b> 99–2 shows a nit Processing for and then Exp e reason.	Comment Status very strange arrangen	<b>R</b> nent - in the transmit eive direction, we ha	t direction, we have the ave Receive Processing processing for some
goal which expklains teh express frame insert dela Proposed Response	detail here (in which case ability to increase min frag ay. <i>Response Status</i> <b>W</b> N PRINCIPLE. See comme	ment size at the	<b>,</b>	Merge I connec to pMA blocks Figure 9	Receive Proce ted to pMAC a C or eMAC bas for no reason. 99-6 and Figur	nd eMAC - there is a vised on SMD value and	way to decide wheth d no need to keep tw n merged into a sing	le State Diagram and then
C/ 99 SC 99.1.3 Jones, Peter	P <b>31</b> Cisco	L 35	# 111		covered in 80	23br_1501_hajduczen		
	Comment Status <b>D</b> dd TSSI interface to Figure 99–1—Relationship of M.		erge Functional Block	<i>Response</i> REJEC What to		Response Status te machine and what		subjective decision.
SuggestedRemedy Add the TSSI interface.	_			cases r		In the editor's opinion,		cking and handling error e breaks the machines into
Proposed Response PROPOSED ACCEPT.	Response Status W			Also, th	ne existing Rec erged the diag	eive Processing state		wded on one page. If they cause it can't readably fit on
				There is	s no interactior	needed between the	two state diagrams	so splitting into two is best.
				<i>Cl</i> <b>99</b> Hajduczenia	SC <b>99.2</b> a, Marek	P 3 Bright	1 <i>L</i> 41 House Network	# 53
					on objectives c	Comment Status f the project, MAC me apart from that is outs	erge only supports M	AC Clients supporting
				SuggestedF	2	1-41 to read <sup>.</sup> "This sul	oclause specifies se	rvices provided by MAC

Change text in lines 41-41 to read: "This subclause specifies services provided by MAC Merge to a MAC Client supporting preemption."

Proposed Response Response Status W PROPOSED ACCEPT.

C/ <b>99</b> SC <b>99.2.1</b> Hajduczenia, Marek	P <b>31</b> Bright House Ne	L <b>46</b> etwork	# 54	<i>CI</i> 99 Tretter, Alb	SC <b>99.2.2</b> ert	P <b>32</b> Siemens AG	L <b>4</b>	# 106
Comment Type <b>T</b> The statement in lines	Comment Status D 46-47 is not accurate. MAC Me	rge uses MMS	GI (not MSSI)	Comment 7 The MM	51	Comment Status A rimitive described in this sub	clause is mand	latory.
SuggestedRemedy Change text to read: "N preemptable frames fro	MAC Merge uses MSSI to reque	est suspensior	n of transmission of		this service man	datory. d also without TAS.		
Proposed Response PROPOSED ACCEPT	Response Status W			Suggested				
C/ 99 SC 99.2.1 Tretter, Albert	P <b>31</b> Siemens AG	L <b>46</b>	# 89	Response ACCEF	PT IN PRINCIPLE	<i>Response Status</i> <b>C</b> E. Discussion was had no ch	ange needed.	
"The MAC Merge can u	Comment Status <b>D</b> C Client using MAC Merge: use the MSSI to request to a			expecc with an	ted that the burd option - having t	because options are bad an en of supporting a feature is o figure out which implemen ne option isn't supported.	high enough to	make it worth dealing
I assume it is ment: "The MAC Merge Clien SuggestedRemedy Please correct	t can use the MSSI to request	to a"		support the cap	t it and because i bability was prese	support, it is likely that all im if it is optional, we would nee int (e.g. managed objects).	d to add suppo	ort for indicating whether
Proposed Response PROPOSED ACCEPT	Response Status W			burden	on the Client.		0 1	
C/ 99 SC 99.2.2	P 31	L <b>54</b>	# 90	<i>CI</i> <b>99</b> Hajduczenia	SC <b>99.2.2</b> a, Marek	P <b>32</b> Bright House I	L <b>5</b> Network	# 3
Fretter, Albert Comment Type E 99.2.2 MMSI	Siemens AG Comment Status D					Comment Status A primitive described in this sul	bclause is man	datory." - this seems to
	service specification is identica	al to that used	in 1.2.2.	Suggested/ Change	•	Merge shall support the MM_	CTL request p	rimitive
=> The reference to 1.2 SuggestedRemedy	2.2 is not resolved.			Response		Response Status C	_012.104000t p	
Please correct				ACCEF	РТ.			
Proposed Response PROPOSED ACCEPT This is a reference to 1	Response Status W IN PRINCIPLE. .2.2 in the base standard.							

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/ 99 SC 99.2.2 Page 19 of 38 1/14/2015 2:17:53 PM

Cl 99         SC 99.2.3.1.1         P 32         L 20         # 4           Hajduczenia, Marek         Bright House Network         # 4	C/         99         SC         99.2.3.1.2         P 32         L 29         # 5           Hajduczenia, Marek         Bright House Network         Even of the second s
Comment Type <b>T</b> Comment Status <b>D</b> "The hold_req parameter can take one of two values, HOLD or RELEASE." - a simple statement will suffice here	Comment Type         T         Comment Status         D           Anything not covered explicitly by teh standard is by definition outside the scope - no need to list every single thing.         Image: Comment Status         D
SuggestedRemedy Change to read: "The hold_req parameter takes one of two values: HOLD or RELEASE."	SuggestedRemedy Remove 99.2.3.1.2
Proposed Response       Response Status       W         PROPOSED ACCEPT.	Proposed Response       Response Status       W         PROPOSED REJECT.       This is the format used for primitive descriptins. They always have all the subclauses.         When one of the subclauses doesn't apply (and that is almost always the case for either when generated or when received) this is what is put in the subclause.
Comment Type TR Comment Status R Wording can be simplified for text in lines 23-27 to avoid circular explanations and unnecessary fluff. It is not important what state eMAC is, as far as definition of primitives is concerned.	Cl 99       SC 99.2.3.1.3       P 32       L 35       # 162         Regev, Alon       Ixia         Comment Type       E       Comment Status       A         The text describing the "Effect of Receipt" of the MM_CTL.request primitive is not clear.
SuggestedRemedy         Change text to read: "The value HOLD suspends transmission from pMAC by preempting a frame currently transmitted by pMAC and allowing transmission from eMAC, regardless of the content of eMAC queues. The value RELEASE terminates preemption and allows transmission by pMAC, regardless of the content of eMAC queues."         Response       Response Status       C	SuggestedRemedy Change "The receipt of this primitive with the value HOLD will cause MAC Merge to suspend transmission from the pMAC" to "The receipt of this primitive with the value HOLD will cause MAC Merge to not start transmitting frames from the pMAC and to potentially preempt the current frame from the pMAC if preemption is enabled and minimum fragment
REJECT. The suggested remedey text is incorrect in more than one way. MACs have no queues. Release does not terminate preemption - it allows the pMAC to transmit when there is no eMAC frame to transmit.	size requirements are met" Response Response Status C ACCEPT IN PRINCIPLE. "The receipt of this primitive with the value HOLD will cause MAC Merge to:
Preemption still occurs when the last parameter was RELEASE.	preempt if preemption is active, a frame from the pMAC is currently being transmitted and minimum fragment size requirements are met and

to not start transmitting frames from the pMAC

C/ 99 SC 99.2.3.1.3 C/ 99 SC 99.2.3.1.3 P 32 / 35 # 6 C/ 99 SC 99.3 P 32 / 45 # 8 Hajduczenia, Marek Bright House Network Haiduczenia. Marek Bright House Network Comment Type T Comment Status D Comment Type T Comment Status A Description of the receipt of primitive can be simplified to remove redundant text Remove the editorial note - the scope of the project is clear. SuggestedRemedv SuagestedRemedv Change text to read: "When the MMSI primitive with the value HOLD is received, MAC Per comment Merge suspends transmission from pMAC and allows eMAC to start transmission. When Response Response Status C the MMSI primitive with the value RELEASE is received, MAC Merge suspends ACCEPT. The note was inserted to document concensus of a discussion of your proposal. transmission from eMAC and allows pMAC to resume transmission." Proposed Response Response Status W C/ 99 SC 99.3.1 P 33 L1 # PROPOSED REJECT. The proposed text is incorrect, see comment #14. Boiger, Christian b-plus GmbH C/ 99 SC 99.3 P 32 L 42 # Comment Type T Comment Status A Hajduczenia, Marek **Bright House Network** The definition of the mFrame format contains also changes to the packet format, e.g. 6 byte preamble, SMD. Comment Type T Comment Status D SugaestedRemedv This is the first time we mention "preemption capability" - no need to add a new term. Change subclause title to "mFrame and mPacket format" and use "mPacket" instead of SuggestedRemedv mFrame where applicable. Changes lines 42 and 43 to read: "When the preemption function is enabled, MAC Merge Response Response Status C sends mFrames to the Reconciliation Sublaver (RS). An ACCEPT IN PRINCIPLE. There is no need for two terms, mPacket is more consistant with mFrame contains either a fragment of a preemted preemptable frame or a whole frame." 802.3 use of packet and frame. Proposed Response Response Status W PROPOSED REJECT. See comment #48 Replace all instances of mFrame with mPacket. C/ 99 SC 99.3 P 32 L 44 # 112 Jones, Peter Cisco Comment Type Е Comment Status D Regarding the editors note starting "This project is only addressing MAC Merge operation over full duplex links." I think that we should remove this, and add a restricting goal in 99.1 that says something like "support only systems that use the preamble and SFD as defined in 3.2.1 and 3.2.2", to automatically move all forms of EFM out of scope. SuggestedRemedy Consider proposed remedy of dfeleting editors note and adding goal to 99.1 Proposed Response Response Status W

IEEE P802.3br D1.0 Ethernet: Interspersing Express Traffic 1st Task Force review comments

PROPOSED ACCEPT IN PRINCIPLE. The term is "point-to-point link" - Add to the end of the first sentence of 99.1 on a point-topoint link.

For deleting the note see comment #8

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/ 99 SC 99.3.1 Page 21 of 38 1/14/2015 2:17:54 PM

Cl 99	SC 99.3.1	P 33	L 14	# 171
Regev, Alon		Ixia		

## Comment Type E Comment Status D

We are inconsistent about the minimum data size (some places state this as 60 and some as 64). I believe we have settled on 64 bytes as the minumum data size for any fragment. I think for the mFrame containing a non-initial fragment or frame we should have the data size as  $\geq$  64 octets. For the express or initial fragment, the data size should remain  $\geq$  60 octets

## SuggestedRemedy

For the "mFrame containing a non-initial fragment of a frame" change the data size from >= 60 octets to >= 64 octets.

Proposed Response Response Status W

### PROPOSED ACCEPT IN PRINCIPLE.

Our multiple of 8 octet requirement for data fields of non-final mFrames is what complicates this. That is why we have sometimes 60 and sometimes 64.

The frame CRC counts as part of the 64 octet minimum for mFrames. Therefore the minimum here of 60 is correct - any of these frames could be a final mFrame and have a frame CRC.

The check in the state machine for preempting uses 64 because preemption won't be able to happen until 64 bytes and the MCRC have been sent.

There is another comment to remove the multiple of 8 test.

If the multiple of 8 test is retained, add text to 99.3.5 to include the multiple of 8 requirement for non-final mFrames and point out that this means minimum data in a non final mFrame will be 64.

C/ 99 SC 99.3.1	P 33	L <b>25</b>	# 10
Hajduczenia, Marek	Bright House Ne	etwork	

## Comment Type **T** Comment Status **D**

Text under Figure 99-3 contains a lot of repetive statements and could be organized in a more clear fashion.

## SuggestedRemedy

Change text in lines 25-28 to read: "The format of an mFrame depends on data it carries. An mFrame carrying an express frame (transmitted by eMAC) has the same format as the express frame. An mFrame carrying a complete (non-fragmented) preemptable frame or the initial fragment of a preempted preemptable (transmitted by pMAC) has the SFD octet replaced with the appropriate SMD value, per Table 99-1. An mFrame carrying any of the non-initial fragments of a

preempted preemptable (transmitted by pMAC) has the SFD octet replaced with the appropriate SMD value, per Table 99-1, and includes an additional fragment countr otctet (FRAG\_COUNT) following SMD."

Proposed Response	Response Status W
PROPOSED ACCEPT I	N PRINCIPLE. Countr should be counter

CI 99	SC 99.3.1	P 33	L <b>3</b>	# 30
Hajducze	nia, Marek	Bright House	e Network	
Commen	t Type E	Comment Status D		
Rem	ove ":" at the end	of the sentence. It is not nee	eded.	

#### SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

# 11

CI 99	SC 99.3.1	P 33	L <b>3</b>	# 9
Hajduczer	nia, Marek	Bright House	Network	

Comment Type T Comment Status R

For simpler referencing, Figure 99–3 should be divided into two figures.

## SuggestedRemedy

Figure 99-3 should show the left part of current Figure 99–3, and new Figure 99–4 should show the right part of current Figure 99–3. Remove text under both fragments of the figure. Once that is done, change the text in line 3 to read: "Figure 99–3 shows the format of an mFrame containing an express frame (transmitted by eMAC) or the initial fragment of a preempted frame (transmitted by pMAC). Figure 99–4 shows the format of an mFrame containing any of non-initial fragments of a preempted frame (transmitted by pMAC)."

#### Response

Response Status C

REJECT. It makes it easier for the reader to see the two formats side by side in one figure and there haven't been any cases where it created a referencing issue.

C/ 99	SC 99.3.2	P 33	L <b>32</b>	
Haiducze	nia. Marek	Bright House Ne	etwork	

Comment Type T Comment Status D

Description of preambel would be simpler if it referenced Figure 99-3 separated into two separate figures, per separate comment. Then we do not need to repeat the rest of information - it is already covered under the figure in descriptive text

## SuggestedRemedy

Change text to read: "The octets of the preamble field contain 0x55 (10101010). The preamble is 7 octets long in mFrame shown in Figure 99-3 and 6 octets long in mFrame shown in Figure 99-4."

# Proposed Response Response Status W

PROPOSED REJECT. Even if the two were in separate figures, it would be useful to the reader to describe when 7 octets applies and when 6 octets applies.

CI 99	SC 99.3.3	P 33	L <b>39</b>	# 15
Hajduczen	ia, Marek	Bright House I	Network	

## Comment Type **TR** Comment Status **D**

Description of the SMD is full of redundant text and unnecessary side track information that adds nothing to definition of the SMD.

## SuggestedRemedy

## Revise the content of 99.3.3 as follows:

The value of the SMD indicates whether the mFrame contains an express frame, the initial fragment of a preemptable frame, or any of non-initial fragments of a preemptable frame. All valid SMD values are defined in Table 99-1.

The SMD in an mFrame carrying a complete (non-fragmented) preemptable frame or any of the fragments of a preemptable frame also indicates the frame number. Information about the frame number prevents reassembling an invalid frame if the final mFrame of one preemptable frame and the initial fragment of the next preemptable frame are lost. The frame number is a modulo-4 count.

SMD-S refers to any of the four SMD values in an mFrame carrying the initial fragment of a preemptable frame. SMD-C refers to any of the four SMD values in an mFrame carrying any of the non-initial fragments of a preemptable frame."

## Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 99	SC 99.3.4	P <b>34</b>	L <b>24</b>	#	32
Hajduczenia	, Marek	Bright H	louse Network		

Comment Type T Comment Status D

Figure 99-3 shows the field called FRAG\_COUNT and in here, we use frag\_count

## SuggestedRemedy

Use capitalization consistent with Figure 99-3, i.e., FRAG\_COUNT in the whole draft.

## Proposed Response Response Status W

PROPOSED REJECT. It is common for figures like this in IEEE 802.3 for labels in figures to use all caps. For example, see figure 3-1 Packet format where PREAMBLE, DESTINATION ADDRESS, etc. are in all caps even though in text they are not.

If frag\_count was used, preamble and data also should be lower case.

C/ 99 SC 99.3.4 Page 23 of 38 1/14/2015 2:17:54 PM

C/ 99 SC 99.3.4 Hajduczenia, Marek	P <b>34</b> Bright House N	L <b>26</b> Network	# 33	C/ <b>99</b> Jones, Pet	SC 99.3.4 ter	P <b>34</b> Cisco	L <b>27</b>	# 113
Comment Type T Co in 99.3.3, we defined SMD-C	omment Status <b>D</b> and SMD-S to referenc	e any value of S	SMD-C and SMD-S.	<i>Comment</i> Typo i	21	Comment Status D t is set to zero for the"		
SuggestedRemedy Change all instances of "SMI	D-Cx" to "SMD-C". Char	nge all instances	s of "SMD-Sx" to "SMD-	<i>Suggested</i> "The f	-	to zero for the"		
S". Proposed Response Res PROPOSED ACCEPT.	sponse Status W			Proposed PROP	Response OSED ACCEPT	Response Status W		
C/ 99 SC 99.3.4 Hajduczenia, Marek	P <b>34</b> Bright House N	L <b>26</b> Jetwork	# 34	<i>Cl</i> <b>99</b> Hajduczen	SC <b>99.3.4</b> ia, Marek	P <b>34</b> Bright House	L <b>27</b> e Network	# 16
•	omment Status D		ely, in mFrames, and	Suggested	mar: "an incorrec IRemedy	Comment Status <b>D</b> at frames" should be "an inco	prrect frame"	
SuggestedRemedy Change "The frag_count field frag_count field is only prese			-Cx." to "The	Proposed	omment <i>Response</i> OSED ACCEPT	Response Status W		
Proposed Response Res PROPOSED ACCEPT.	sponse Status W			<i>Cl</i> <b>99</b> Regev, Ald	SC 99.3.5	Р <b>34</b> Іхіа	L <b>54</b>	# 172
C/ 99 SC 99.3.4 Hajduczenia, Marek Comment Type T Co Description of frag_count is a	P 34 Bright House N omment Status D		# <u>35</u>	Comment We ar as 64)	<i>Type</i> <b>T</b> e inconsistent al . I believe we ha	Comment Status <b>D</b> bout the minimum data size of ave settled on 64 bytes as th ill state "60" octets. It hink v	e minumum data	size for any fragment.
statement. It should be the o SuggestedRemedy			ien go into generic	Suggested chang	<i>IRemedy</i> e "60 octets" to '	'64 octets"		
Change the content of 99.3.4 "The frag_count is a modulo- preemptable frame. The frag to 3 frame fragments are lost The frag_count field is only p at the start of each preempta frag_count field. The valid values of frag_cour	-4 counter that incremen _count protects against t. present in mFrames with able frame, and mFrame	reassembling a SMD-C. The fra s with SMD-S d	n incorrect frames if up ag_count is set to zero	octets	OSED REJECT	Response Status W . 64 octets would be incorrec ctets of CRC. See comment		
Proposed Response Res PROPOSED ACCEPT.	sponse 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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

CI 99 SC 99.3.5 Page 24 of 38 1/14/2015 2:17:54 PM

Cl 99	SC 99.3.6	P <b>35</b>	L <b>1</b>	# 36
Hajduczeni	a, Marek	Bright House I	Network	

Comment Type T Comment Status R

Description of CRC is a tad chaotic. We start with detail and then go into generic statement. It should be the other way around.

### SuggestedRemedy

Change the content of 99.3.6 to read as follows:

The CRC field contains a cyclic redundancy check (CRC) for the mFrame, calculated from the first octet of the mFrame (DATA field in Figure 99-3, or FRAG\_COUNT field in Figure 99-4) to the last octet of the mFrame (end of DATA field).

The CRC shall be computed following steps a) through d) in 3.2.9 and then XORed with 0x00-00-FF-FF. The XOR operation is performed to differentiate CRC in the mFrame from the CRC in a regular MAC frame. The CRC in the final fragment of a preempted preemptable frame contains the CRC from the original MAC frame with no XOR performed on the value. The CRC in the mFrame is therefore used to indicate whether the given mFrame contains the final fragment of a preemptable frame.

Response

Response Status C

REJECT. The description starts by explaining that the CRC field contains a CRC check and an indication of whether this is a final mFrame - that is starting with the general.

The proposed replacement text is incorrect - it is important for correct operation that the CRC computation begins with the first octet of the frame; not the first octet of the mFrame. This ensures that the CRC of a non-final mFrame is always different from the frame CRC computation at that point. If it was calculated over a different byte range than the frame CRC, there could be times when the non-final mFrame computation produced the same result as the frame's CRC and the final mFrame was treated as a non-final mFrame.

As clearly indicated in the current text - the mFrame computation is running over the same bytes with the same process as the frame CRC and the only difference is the value XORed in the last step.

Cl 99	SC 99.3.6	P 35	L <b>8</b>	# 163
Regev, Alo	n	Ixia		

## Comment Type E Comment Status D

extra "the" in the sentence "For other mFrames, it contains the an mCRC value calculated on the data octets of the frame from the first octet of the frame to the last octet transmitted in that mFrame"

### SuggestedRemedy

Change "For other mFrames, it contains the an mCRC value calculated on the data octets of the frame from the first octet of the frame to the last octet transmitted in that mFrame" to "For other mFrames, it contains an mCRC value calculated on the data octets of the frame from the first octet of the frame to the last octet transmitted in that mFrame"

Proposed Response	Response Status	W
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PROPOSED ACCEPT.

C/ 99	SC 99.4.1	P 35	L <b>23</b>	# 66
Hajduczenia,	Marek	Bright House I	Network	

Comment Type TR Comment Status D

The behavior described in 99.4.1 is not part of project objectives and it is not needed to cover the scope of this Task Force.

#### SuggestedRemedy

Remove 99.4.1 - when preemption is disabled, only one data path should be active, i.e., pMAC, and eMAC should be enabled together with the preemption function. Otherwise, we are adding an extra priorization point at MAC Merge - something that 802.3 was usually avoiding by transfering all priorization tasks to 802.1 layers above the MAC.

#### Proposed Response Response Status W

PROPOSED REJECT. This behavior was agreed on in consultation with 802.1 TSN during development of the project baseline. MAC Merge is just ensuring the prioritization dictated by the MAC Client in chosing between the two interfaces, not inserting a new prioritization. See also Comment # 12

C/ 99	SC 99.4.1	P 35	L 23	# 164
Regev, Alo	n	Ixia		

Comment Type E Comment Status D

"MAC Merge transmission behavior" would be clearer as "MAC Merge transmit behavior"

## SuggestedRemedy

Change "MAC Merge transmission behavior" to "MAC Merge transmit behavior"

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/gener	al 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/ 99 SC 99.4.1 Page 25 of 38 1/14/2015 2:17:54 PM

C/ 99	SC 99.4.2	P <b>25</b>	L <b>31</b>	# 61
Hajduczenia	a, Marek	Bright House N	Network	

#### Comment Type T Comment Status A

Description of the process of detecting preemption across the link is confuring - it starts with detais and then has summary information spead across the text without much organization. It should start with high level summary and then go into details and requirements.

#### SuggestedRemedy

#### Revise 99.4.2 to read:

The preemption function is enabled on the given PHY in the transmit direction only if it is determined that the link partner supports the preemption function. The process of discovering the support for the preemption function on the link partner relies on the exchange of the Additional Ethernet Capabilities TLV (see 79.3.6) between link partners via LLDP (see IEEE Std 802.1Q for details).

The preemption function shall be enabled for the given PHY only if the link partner announces its support for the preemption function via an Additional Ethernet Capabilities TLV. The preemption function shall be disabled on link failure or if the support for the preemption function on the link partner is undefined. Once the preemption function on the PHY is enabled, the PHY shall periodically send an Additional Ethernet Capabilities TLV. (see 802.1Q for details.)

#### Response

Response Status C

ACCEPT IN PRINCIPLE.

The suggested text is reasonably clear with a few of exceptions.

"or if the support for the preemption function on the link partner is undefined" should be deleted. Once preemption support by the link partner has been discovered through LLDP and preemption enabled, there is no way for preemption support by the link partner to become undefined. The last sentence is incorrect, PHYs do not send TLVs and there is no need to continue sending the TLV once preemption is enabled.

Also that the TLV needs to be sent in an LLDP frame addressed to the Nearest Bridge group address is a requirement and has been omitted from the description.

Disabling on link failure was made a should rather than a shall because IEEE 802.3 doesn't always ensure that something above the reconcilliation layer can determine that a link failure has been detected by the PHY. The PHY link status goes to management, not up through the MAC. Some implementations may be able to see link status and act on it.

#### Replace the text of the subclause with:

The preemption function is enabled in the transmit direction only if it is determined that the link partner supports the preemption function.

The process of discovering the support for the preemption function on the link partner relies on the exchange of the Additional Ethernet Capabilities TLV (see 79.3.6). Since preemption operates between the local device and the link partner, the Additional Ethernet

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

Capabilities TLV should be sent in an LLDP frame addressed to the Nearest Bridge group address (see IEEE 802.1Q).

The preemption function shall be enabled only if the link partner announces its support for the preemption function via an Additional Ethernet Capabilities TLV. The preemption function should be made inactive on link failure.

CI <b>99</b>	SC 99.4.2	P <b>35</b>	L <b>31</b>	# 56
Hajduczei	nia, Marek	Bright House	Network	
<i>Comment</i> Subcl	<i></i>	Comment Status <b>D</b> D NOT need "." at the end		
00	dRemedy ove "." at the end c	of individual headings in the	draft - there are a	a few instances.
	Response POSED ACCEPT	Response Status W IN PRINCIPLE. The editor w	vill attempt to find	d and fix all instances
CI 99	SC 99.4.2	P 35	L 33	# 165
Regev, Al	on	Ixia		
<i>Comment</i> "An n	<i>Type</i> <b>E</b> ode" should be "A	Comment Status D node"		
Suggeste	dRemedy			
Repla	ice "An node" with	"A node"		
	Response POSED ACCEPT.	Response Status W		
C/ 99	SC 99.4.2	P 35	L <b>34</b>	# 114
Jones, Pe	eter	Cisco		
<i>Comment</i> typo i		Comment Status D MAC Merge sublayer"		
Suggeste	dRemedy			

Proposed Response Response Status W

PROPOSED ACCEPT.

CI <b>99</b>	Page 26 of 38
SC 99.4.2	1/14/2015 2:17:54 PM

C/ 99	SC 99.4.3	P 35	L <b>46</b>	# 62	Cl
Hajduczeni	a, Marek	Bright House	Network		Jor

#### Comment Type T Comment Status A

The content of 99.4.3 focuses (in 802.1 fashion) to much on non-compliant devices. The fact is that we do not know (and do not need to explicitly know) what they do with frames if they are non-compliant.

### SuggestedRemedy

#### Reword the content of 99.4.3 to read:

"Some link partners may implement PHYs that are not IEEE Std 802.1Q compliant. Such PHYs may handle mFrames in an expected (forward mFrames unchanged) or unexpected fashion (insert SFD into the forwarded mFrame, drop mFrames, etc.).

To verify the operation of the preemption function across the given link once the preemption function has been enabled, the local PHY shall send a fragmented TBD mFrame. If no response from the link partner is received within TBD seconds, the preemption function on the local PHY shall be disabled."

Leave the editorial note in place as is.

## Response

Response Status C

ACCEPT IN PRINCIPLE. The proposed text doesn't make sense. There is no way for PHYs to be not IEEE Std 802.1Q compliant since 802.1Q says nothing about PHY behavior. The existing text accurately describes one of the concerns that makes verification necessary. The propsed text perhaps jumbles that together with another concern - that there may be some PHYs with propietary features that may alter mFrames. As the commenter suggests, we don't need to describe all the issues that verification may address. The suggested text doesn't seem any less focused on non-compliant behavior. Therefore, make no change to the first paragraph.

The propsed resolution of how to do verification is incomplete and we have other proposals.

See Comment #128 for resolution on how to do verification.

CI 99	SC 99.4.3	P 36	L 1	#	128
Jones, Pete	er	Cisco			

## Comment Type T Comment Status A

Re editors note about verifying preemption, can we look at using IEEE 802.1ag Ethernet CFM Loop-back (LB) message for this. Is this a must, or nice to have? If it's a nice to have, we just need to suggest CFM LB.

### SuggestedRemedy

Discuss using 802.1 CFM LB message rather than defining something new.

Response Response Status C

ACCEPT IN PRINCIPLE. CFM doesn't seem likely to be implemented on most systems implementing this standard and it isn't clear how it would detect whether preemption can work over a link.

Adopt verification proposal 8023br\_1501\_thaler\_1\_v2.pdf and remove editor's note

C/ 99	SC 99.4.4	P 36	L 17	# 132
Vahid Tab	oatabaee	Broadcom		

Comment Type TR Comment Status X

It is stated that the minimum fragment size of Tx may need to set larger than 64B based on the link partner's Rx requirements. Supporting configurable minimum fragment size of Tx based on the receiver side requirement adds complexity to the MAC design and required buffering at the pMAC.

Suggestion is to make support for minimum 64B fragment size at the receiver side a requirement. The Tx side min fragment size can be set to multiple of 64B if needed but Tx fragment size of link partners do not need to be symmetric.

## SuggestedRemedy

Remove lines 16 to 20.

## Proposed Response Response Status W

#### Discuss

TX fragment size is not required to be symmetric. The transmitter on each side of the link adjusts to the receiver on the other side of the link.

We decided to let the receiver control the minimum fragment size it is willing to receive and the transmitter on the other side of the link has to adjust to the receiver's requirement. This does shift burden from the receiver to the transmitter.

Do we want to change the decision?

Alternatives:

Make no change

Reduce addFragSize to 2 bits to reduce the burden on the transmitter (maximum minimum non-final fragments = 256 instead of 512) Remove addFragSize (minimum is always 64)

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ <b>99</b>	Page 27 of 38
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 99.4.4	1/14/2015 2:17:54 PM

SORT ORDER: Clause, Subclause, page, line

ones, Peter Cisco	C/         99         SC         99.4.5         P 36         L 38         # 55           Hajduczenia, Marek         Bright House Network			
Comment Type E Comment Status D	Comment Type E Comment Status D			
I think we should define minActFragSize as a concept/term up front. minActFragSize is (64 x (1+ AddFragSize)) octets.	Subclause 99.4.5 contains a lot of repetetive material, covering the same topics that were already explained and defined in previous subclauses			
This will simplify the goals definition for preemption latency to be	SuggestedRemedy			
"Provide a latency to initiating transmission of an express frame less than (64+IPG+minActFragSize)."	Reword subclause 99.4.5 per 8023br_1501_hajduczenia_2.pdf (clean and diff versions are provieded).			
SuggestedRemedy	Proposed Response Response Status W			
define as suggested, and make use of the new term though the draft where appropriate.	PROPOSED REJECT.			
roposed Response Response Status W	In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition.			
PROPOSED REJECT. This would complicate the early material See Comment #132 and 31.	The proposed text assumes that the Receive Processing Function and Express Filter Function of the current draft are combined into a single function but doesn't provide the state machines to do so.			
Ø 99         SC 99.4.4         P 36         L 8         # 63           lajduczenia, Marek         Bright House Network         63         63	See also comment #67			
Comment Type T Comment Status X	Cl 99 SC 99.4.5 P 36 L 42 # 167			
Subclause 99.4.4 contains a lot of repetetive material, covering the same topics that were	Regev, Alon Ixia			
already explained and defined in previous subclauses	Comment Type E Comment Status D			
Reword subclause 99.4.4 per 8023br_1501_hajduczenia_1.pdf (clean and diff versions are	Sentence contatinng comma followed by that: "When the SMD contains an SMD-S, that indicates the initial mFrame of a preemptable frame."			
provieded). Proposed Response Response Status W	SuggestedRemedy			
	Proposed rewording: "An SMD containing an SMD-S indicates the initial mFrame of a preemptable frame."			
PROPOSED REJECT. The proposed text doesn't correctly describe Transmit Processing	preemptable frame."			
PROPOSED REJECT. The proposed text doesn't correctly describe Transmit Processing operation. See comment #14.				
operation. See comment #14.	preemptable frame." Proposed Response Response Status W PROPOSED ACCEPT.			
	Proposed Response Response Status W PROPOSED ACCEPT.			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition. The proposed text is only slightly shorter than the current text and that is partly due to	Proposed Response Response Status W			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition.	Proposed Response Response Status W PROPOSED ACCEPT. Cl 99 SC 99.4.5 P 37 L 10 # 168			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition. The proposed text is only slightly shorter than the current text and that is partly due to	Proposed Response       Response Status       W         PROPOSED ACCEPT.       P 37       L 10       # 168         Cl 99       SC 99.4.5       P 37       L 10       # 168         Regev, Alon       Ixia         Comment Type       E       Comment Status       D         Sentence contatinng comma followed by that: "When the SMD contains an SMD-C, that indicates an mFrame that continues the data for a preempted frame."			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition. The proposed text is only slightly shorter than the current text and that is partly due to	Proposed Response       Response Status       W         PROPOSED ACCEPT.       P37       L 10       # 168         Cl 99       SC 99.4.5       P 37       L 10       # 168         Regev, Alon       Ixia       Ixia       Ixia         Comment Type       E       Comment Status       D         Sentence contatinng comma followed by that: "When the SMD contains an SMD-C, that			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition. The proposed text is only slightly shorter than the current text and that is partly due to	Proposed Response       Response Status       W         PROPOSED ACCEPT.       P 37       L 10       # 168         Cl 99       SC 99.4.5       P 37       L 10       # 168         Regev, Alon       Ixia       Ixia       Ixia         Comment Type       E       Comment Status       D       Sentence contatinng comma followed by that: "When the SMD contains an SMD-C, that indicates an mFrame that continues the data for a preempted frame."         SuggestedRemedy       Proposed rewording: "An SMD containing ab SMD-C indicates an mFrame that continues			
operation. See comment #14. In order to provide an overview of how something operates and then later provide a complete more detailed explaination there will be some repetition. The proposed text is only slightly shorter than the current text and that is partly due to	Proposed Response       Response Status       W         PROPOSED ACCEPT.       P 37       L 10       # 168         Cl 99       SC 99.4.5       P 37       L 10       # 168         Regev, Alon       Ixia       Ixia       Ixia         Comment Type       E       Comment Status       D       Sentence contatinng comma followed by that: "When the SMD contains an SMD-C, that indicates an mFrame that continues the data for a preempted frame."         SuggestedRemedy       Proposed rewording: "An SMD containing ab SMD-C indicates an mFrame that continues the data for a preempted frame."			

SC 99.4.5         P 37         L 30         # 97           ert         Siemens AG
Type         T         Comment Status         D           ent to the Editors note.         D         D         D
no solution for this problem, where the new Frame is not discarded?
bes this behavior affect the robustness of the suggested solution? Remedy sue has to be discussed
Response Response Status W
DSED ACCEPT IN PRINCIPLE. e discussed.
small subset of the set of potential bit errors on a link would cause this discard. It is when the SMD of the final fragment is corrupted or not received (which requires r in the PHY start delimiter, preamble or SMD) or if the CRC of the final frame is ed to look like a valid MCRC (or the packet has errors that make the final CRC of the computed MCRC value).
his is a very small subset of the errors that can cause frame loss, this would cause ble additional frame loss.
y difficult in many implementations to have a frame in process and then switch to ng a new frame with no time to do so. Normally there is an interpacket gap to finish sing the last frame including any error handling such as recovering buffers where ored frame was stored. To not discard the new frame, implementations would have ble to terminate an errored frame and in 6 bytes start receiving the new frame whe rrmally have 20 bytes (IPG and preamble) between frames.
erro erro

Discuss with TSN tomorrow

C/ 99 SC 99.4.5

C/ 99         SC 99.4.6         P 37         L 42         # 68           iretter, Albert         Siemens AG	C/         99         SC         99.4.7.3         P 38         L 30         # 117           Jones, Peter         Cisco
Comment Type T Comment Status D 99.4.6 Express filter The sentence "If an mFrame contains an SMD-E, express filter passes the RS PLS_DATA.indication,	Comment Type         E         Comment Status         D           Add (and use) variable minActFragSize = minFrag+(addFragSize*64) to improve readability.
PLS_SIGNAL.indication and PLS_DATA.request to the eMAC."	SuggestedRemedy Change as above.
and the sentence	Proposed Response Response Status W
"PLS_SIGNAL.indication is never produced by Express filter since it does not apply to full duplex PHYs"	PROPOSED REJECT. I thought about doing that but since the variable would only be us once to produce yet another variable (preempt) it would be needless indirection and not kind to the readers.
are somehow contradictory.	Cl 99 SC 99.4.7.3 P 38 L 43 # 74
uggestedRemedy	Tretter, Albert Siemens AG
Confict should be cleared	Comment Type E Comment Status D
roposed Response Response Status W	Service primitive "MM_CTL.request":
PROPOSED ACCEPT IN PRINCIPLE. Delete PLS_SIGNAL.indication to produce:	
"If an mFrame contains an SMD-E, express filter passes the RS PLS_DATA.indication and	This is sometimes called MM_CTR.request but mostly MM_CTL.request (Fig. 99-2).
PLS_DATA.request to the eMAC."	SuggestedRemedy
7 99 SC 99.4.7.2 P 38 L 21 # 58	Should be unified.
ajduczenia, Marek Bright House Network	Proposed Response Response Status W
omment Type ER Comment Status R	PROPOSED ACCEPT IN PRINCIPLE. Replace instances of MM_CTR with MM_CTL
The format of Constants, Variables, Functions, Counters, and Timers should follow 802.3 format. It would be ideal to use format employed in 802.3bk/802.3av Clause 76.	Cl 99         SC 99.4.7.3         P 38         L 43         # 75           Tretter, Albert         Siemens AG
uggestedRemedy	Comment Type E Comment Status D
	Variable description "hold"
If needed, I can provide revised format and definitions, if source Frame file is provided.	
	Boolean variable that is set TRUE when MM_CTR.request is received with a value of HOLD and TRUE when MM_CTR.request is received with the value RELEASE.
esponse Response Status <b>C</b> REJECT. The commenter does not describe what the objection is to the format used.	
Response Response Status <b>C</b> REJECT. The commenter does not describe what the objection is to the format used. IEEE 802.3 has a great many state machines and different Clauses have somewhat different formats.	HOLD and TRUE when MM_CTR.request is received with the value RELEASE.
Response Response Status C REJECT. The commenter does not describe what the objection is to the format used. IEEE 802.3 has a great many state machines and different Clauses have somewhat	HOLD and TRUE when MM_CTR.request is received with the value RELEASE. In both cases the variable "hold" is set to TRUE

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/ 99 SC 99.4.7.3 Page 30 of 38 1/14/2015 2:17:54 PM

C/         99         SC         99.4.7.3         P 39         L 2         # 118           ones, Peter         Cisco	C/         99         SC         99.4.7.3         P 39         L 7         # 86           Tretter, Albert         Siemens AG
Comment Type       E       Comment Status       A         The definition of preempt is a little daunting. I spent a while looking at this, and I would really appreciate a little text explaining it (or maybe a pointer/xref is the text is somewhere else already.       I spent a while looking at this, and I would really appreciate a little text explaining it (or maybe a pointer/xref is the text is somewhere else already.         uggestedRemedy       Consider further explaination of why the preempt definition is like it is.         esponse       Response Status       C	<ul> <li>Comment Type E Comment Status D</li> <li>Variable "pTxCplt": In the Transmit Processing State Diagram Figure 99–4 the variable is written as follows: pTXCplt.</li> <li>SuggestedRemedy         <ul> <li>It should be unified "pTXCplt".</li> </ul> </li> <li>Proposed Response Response Status W         <ul> <li>PROPOSED ACCEPT. Make the x lower case</li> </ul> </li> </ul>
ACCEPT IN PRINCIPLE. We normally don't explain transition conditions. The variable preempt is just a way to condense a transiton condition that wouldn't fit in the state machine - something that has been done elsewhere in 802.3 for similar situations.	Cl 99 SC 99.4.7.4 P 39 L 45 # 169 Regev, Alon Ixia
For the commenter's edification - we only preempt when: Preempt is active An eMAC frame is ready to start or HOLD is asserted The minimum data for a fragment has been sent and Data for a minimum fragment remain. No change needed in the spec.	Comment Type E Comment Status D "minfrag" should be "minFrag" SuggestedRemedy change "minfrag" to "minFrag" Proposed Response Response Status W PROPOSED ACCEPT.
99         SC 99.4.7.3         P 39         L 6         # 80           etter, Albert         Siemens AG	C/         99         SC         99.4.7.4         P 40         L 16         # 119           Jones, Peter         Cisco
Description Variable "pTX":       D         Boolean variable that is set TRUE when there is an ePLS_DATA.request and FALSE otherwise.       should be changed to:	Comment Type       E       Comment Status       D         Typo in definition of       RX_MCRC_CK. Precscient function returning a Boolean value         SuggestedRemedy       Prescient function returning a Boolean value
Boolean variable that is set TRUE when there is an pPLS_DATA.request and FALSE otherwise.	Proposed Response Response Status W PROPOSED ACCEPT.
uggestedRemedy Change ePLS_DATA.request to pPLS_DATA.request	
roposed Response Response Status W	

C/ 99 SC 99.4.7.4

C/ 99 SC 99.4.7.4 Tretter, Albert	P <b>40</b> Siemens AG	L 18	# 77	<i>Cl</i> <b>99</b> <i>SC</i> <b>99.4.7.5</b> Hajduczenia, Marek	6 P <b>40</b> Bright House	L <b>40</b> Network	# 59
<i>comment Type</i> <b>E</b> received after the nex pPLS_DATA.indications	Comment Status <b>D</b> tt 32 mPLS_DATA.indication 	"prmitives" and t	the next 32	Comment Type ER There is nothing diffe SuggestedRemedy	Comment Status R rent about counters and varial	bles.	
uggestedRemedy Please correct prmitives	=> primitives			Merge Counters into <i>Response</i> REJECT. There is so increment counters.	Variables. <i>Response Status</i> <b>C</b> mething different about count	ers and variables	s. I expect to be able to
Proposed Response PROPOSED ACCEPT.	Response Status W			Many other clauses in	n 802.3 list counters separate	y.	
C/ 99 SC 99.4.7.4	P <b>40</b> Siemens AG	L <b>35</b>	# 81	C/ 99 SC 99.4.7.7 Hajduczenia, Marek	<i>P</i> <b>42</b> Bright House	L 10 Network	# 64
Comment Type E Description SMDS_ENC	Comment Status <b>D</b> ODE(frame_cnt) function: vith the SMD encoding for an	SMD-I with fram	ne count of frame_cnt.	Comment Type T "FALE" should be "F/ SuggestedRemedy Per comment	Comment Status D ALSE" in INIT TX PROC		
SMD-I should be replace uggestedRemedy SMD-I should be replace				Proposed Response PROPOSED ACCEP			
roposed Response PROPOSED ACCEPT.	Response Status W			Cl 99 SC 99.4.7.7 Tretter, Albert	P <b>42</b> Siemens AG	L 10	# 83
7 99 SC 99.4.7.4 retter, Albert comment Type E	P <b>40</b> Siemens AG Comment Status <b>D</b>	L 8	# 76		Comment Status <b>D</b> b" used in the statemachine d gram, state "INIT TX PROC". FALE"	escribed in Figur	re 99–4—Transmit
Function: pRX_DV(data Produces an ePLS_DAT	_valid:			Should be replaced b "resumeTx <= FALSE			
uggestedRemedy In this case it should be roposed Response	"Produces an pPLS_DATA_\ <i>Response Status</i> <b>W</b>	ALID.indication	."	SuggestedRemedy Should be corrected Proposed Response PROPOSED ACCEP	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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 99 SC 99.4.7.7 Page 32 of 38 1/14/2015 2:17:54 PM

C/ 99 SC 99.4.7.7 P 42	L 14	# 92	Cl 99	SC 99.4.7.7	P <b>42</b>	L <b>29</b>	# 93
Tretter, Albert Siemens AG			Tretter, Alb	pert	Siemens AG		
Comment Type T Comment Status A			Comment	Туре Т	Comment Status D		
In the Tx state machine (Figure 99–4—Transmit Pro "resumeTx" is set to True in state "PREMPT WAIT", initialization state "INIT TX PROC" where this variab	, but there is no	state besides the	variabl	e "txFrame" is n	e (Figure 99–4—Transmit Pro ot incremented at all. ed in state "INIT TX PROC".	ocessing State I	Diagram) the The
SuggestedRemedy			The va	ariable has to be	incremented after a preempte	ed frame was se	ent completely.
This variable should be set to False in state "IDLE T	X PROC"		This is	happen after sta	ate "P TX COMPLETE" was p	proccessed with	"pTXCplt=TRUE"
Response Response Status C							
ACCEPT.			Suggested	•	· · · · · · · · · · · · · · · · · · ·	and the d	
C/ 99 SC 99.4.7.7 P 42	L 16	# 84			operation (txframe++) as sug	jgested.	
Tretter, Albert Siemens AG			Proposed I PROP	•	Response Status W IN PRINCIPLE. See Comme	ent #83	
Comment Type E Comment Status D	hing departhed i		C/ 99	SC 99.4.7.7	P 42	L <b>3</b>	# 120
Typo: variable "start ipg_imer" used in the statemac 99–4—Transmit Processing State Diagram, state "II			Jones, Pet		Cisco	20	# 120
Typo: "resumeTx <= FALE"			Comment	Туре Е	Comment Status D		
Should be replaced by: "resumeTx <= FALSE"					ve the "The Receive Process er State Diagram & Figure 99		r to in Figure 99–5.
SuggestedRemedy			Suggested	IRemedy			
Typo: start ipg_imer => start ipg_timer			Locate	e explanatory text	t closer to figure if possible.		
Proposed Response Response Status W			Proposed I	Response	Response Status W		
PROPOSED ACCEPT.			move o Norma	closer to the diag Illy the varibles, o ptions go before	I'm not sure I understand the grams? counters, etc go before the st that so if that is what you are	ate diagrams ar	nd the function
			C/ 99	SC 99.4.7.7	P <b>42</b>	L <b>3</b>	# 166
			Regev, Alo	n	Ixia		
			Comment <sup>®</sup> "Figure		<i>Comment Status</i> <b>D</b> wice in "Figure Figure 99-4"		
			Suggested		<u>j</u> - j		
			00		99-4" to "Figure 99-4"		
			Proposed I	Response	Response Status W		
				, OSED ACCEPT	,		

C/ 99 SC 99.4.7.7

CI 99 SC 99.4.7	.7 P 42	L <b>34</b>	# 65	C/ 99 SC 9	9.4.7.7	P <b>42</b>	L <b>39</b>	# 98
Hajduczenia, Marek	Bright House	Network		Tretter, Albert		Siemens AG		
10=	Comment Status D ners are loaded / started in 802. _Monitor_Interval]. See 77.1.5 fo		, L	State change Condition "pT	from "PRE KCplt=TRU	Comment Status D Processing State Diagram MPTABLE TX" to "P TX CO E": I the condition "*preempt=FA		
,	-	and then make c	hanges in Figure 99-4,	SuggestedRemed Discussion ne				
PROPOSED REJEC follows conventions 1990.	Response Status W CT. Most of IEEE 802.3 starts tir established by my task group w	hen editing Clau	ise 14 (14.2.3.2) before	the same time	REJECT. I	Response Status W is not necessary. Preempt a Preempt requires that there is UE means there is nothing	s at least a mir	nimum mFrame left to
different starting val	in extension to that convention bues into timers, but that extension	on is not needed	I here.	C/ 99 SC 9 Vahid Tabatabaee	99.4.7.7	P <b>42</b> Broadcom	L <b>42</b>	# <u>1</u> 33
C/ 99 SC 99.4.7 Fretter, Albert	.7 P 42 Siemens AG	L <b>35</b>	# 85	Comment Type	TR	Comment Status D		
	Comment Status D			The txFrameC	nt snouid	be incremented in P TX Corr	ipiete	
Comment Type E	teh timer "ipg_time" to "ipg_tim			SuggestedRemed In P TX COM	,	line should be added:		
Correct the name of	ocessing State Diagram) at state	change form st		txFrameCnt +				
Correct the name of 99–4—Transmit Pro	ocessing State Diagram) at state			txFrameCnt + Proposed Respon PROPOSED /	+ se	Response Status W		

C/ 99 SC 99.4.7.7

CI 99	SC 99.4.7.7	P <b>42</b>	L <b>44</b>	# 170
Regev, Alon	I	Ixia		
preempt COMPL preempt	PTABLE TX" tran t=TRUE, and it is .ETE" will transition t is controlled als	Comment Status <b>A</b> isitions to "TX MCRC" and assumed that preempt wi on to "PREMPT WAIT", bu o by the state of HOLD, ar FALSE between the "PREM	Il remain TRUE s it this is not nece id hold could go	so that "P TX essarily TRUE. As away at any time,

## SuggestedRemedy

Split "P TX COMPLETE" into two states: "P TX CMPLT FRAG" and "P TX CMPLT FINAL"

Both "P TX CMPLT FRAG" and "P TX CMPLT FINAL" should contain the function "mTX\_CPLT".

"TX MCRC" should transition unconditionally to "P TX CMPLT FRAG" "P TX CMPLT FRAG" should transition unconditionally to "PREMPT WAIT"

"PREMPTABLE TX" should transition to "P TX CMPLT FINAL" if pTXCplt=TRUE. "P TX CMPLT FINAL" should transition unconditionally to "IDLE TX PROC"

Response

Response Status C

ACCEPT IN PRINCIPLE. Good catch. There is a simpler fix. If one is in P TX COMPLETE because of a frame preemption, pTXCplt will be FALSE. So change the transition to pTXCplt=FALSE instead of preempt= TRUE.

CI <b>99</b>	SC 99.4.7.7	P <b>42</b>	L <b>49</b>	# 96
Tretter, Alt	pert	Siemens AG		

Comment Type T Comment Status D

Figure 99.5.Receive Processing State Diagram:

In state "INCREMENT FRAG CNT" the variable "ntxRxFrag" should be incremented and not "rxFragCnt".

# SuggestedRemedy

Change rxFragCnt to ntxRxFrag

Proposed Response Response Status W PROPOSED ACCEPT.

CI <b>99</b>	SC	99.4.7.7	P 42	2	L <b>5</b>	# 60
Hajduczer	nia, Mar	ek	Bright	House Ne	twork	
Comment	Туре	ER	Comment Status	D		
WOR	D1_WO	RD2_WO	s should have a nam RD3 etc. In this way, name of a state with	when refe	erring to indiv	idual states, it is not
Suggeste	dRemea	ly				
			" to "INIT_TX_PRO 99-4, 5, and 6	C", "IDLE 1	TX PROC" to	"IDLE_TX_PROC", etc.
Proposed	Respon	ise	Response Status	w		
follow	ed by th	e word sta		ctantly acc		hey are in all caps and em with something else,
follow but it	ed by th does se	e word sta	ate, there isn't much	ctantly acc chance of		
follow but it C/ <b>99</b>	ed by th does se SC	e word sta em to be t	ate, there isn't much he convention. P 42	ctantly acc chance of	confusing th	em with something else,
follow	ed by th does se SC nristian	e word sta em to be t	ate, there isn't much he convention. P 42	ctantly acc chance of 2 GmbH	confusing th	em with something else,
follow but it Cl 99 Boiger, Cl Comment The tr autom also a even scheo	ed by th does se SC mristian <i>Type</i> ransmit p natically fiter a ho if there i lule. The	e word sta em to be t 99.4.7.7 TR processing after pree old reques s no frame	Ate, there isn't much he convention. P 42 b-plus Comment Status g state diagram curre mpt is set to true. Th t is received. Therefore to transmit. The ho o be many cases wh	ctantly acc chance of 2 GmbH A ently enters is means i ore, it also Id signal is	<i>L</i> <b>50</b> <i>L</i> <b>50</b> the state E t enters the enters the E e.g. sent ba	# 2 # 2 XPRESS_TX EXPRESS_TX state, XPRESS_TX state, sed on the 802.1Qbv

#### SuggestedRemedy

After PREEMPT\_WAIT one should only enter EXPRESS\_TX if eTX=true. If eTX is not true during the time interval "hold" is true, the next fragment should be sent.

Response Response Status C

ACCEPT IN PRINCIPLE. Add "\* eTX=true" to the transition from PREEMPT\_WAIT.

Add a transtition from PREEMPT\_WAIT to RESUME\_PREAMBLE with the same conditions as the transtion from RESUME\_WAIT to that state.

C/ 99 SC 99.4.7.7 Tretter, Albert	P <b>42</b> Siemens AG	L <b>9</b>	# 82	<i>CI</i> <b>99</b> Tretter, Alb	SC 99.4.7.7 pert		<b>3</b> ens AG	L <b>29</b>	# 94
	Comment Status <b>D</b> used in the statemachine desc am, state "INIT TX PROC" sho meCnt".			0	99–5–Receiv	Comment Status Processing State Di we mCRC computation	agram	ceived fragmen	ts?
SuggestedRemedy Rename the counter txf Proposed Response PROPOSED ACCEPT.	Response Status W			Suggested	Remedy	p of state "P RECEIV e "P RECEIVE DATA Response Status	' where th		cessed.
C/ 99 SC 99.4.7.7 Tretter, Albert	P <b>43</b> Siemens AG	L <b>29</b>	# 95			computation is fully c and adding it to the s			e what would be added
The case where the mC missing.	Comment Status R Processing State Diagram CRC check at the end of a frag ard. In the current state diagrar		-	If we d C/ <b>99</b> Tretter, Alb Comment	SC 99.4.7.7		<b>3</b> ens AG	L <b>43</b>	# <u>79</u>
SuggestedRemedy Add the necessary che Response	ck and action to the state mac Response Status <b>C</b>	hine.		In Figu state "	ire 99–5—Rece WAIT FOR DV	vive Processing State FALSE" the condition Inction description of	⊨"+ ÕTHI	ER" should be c	hanged to "+ ERORR"
REJECT. There is no n be a frame CRC.	rrect frame CRC, the MAC har			=> Fig => Fig	ure 99–6—Exp ure 99–5—Rec	rm "OTHER" also in s ress Filter State Diagu eive Processing State	am => P	age 44; Line 19	
bad CRC.				Suggested Please Proposed I	correct	Response Status	w		
					OSED ACCEP	,			

C/ 99 SC 99.4.7.7

C/         99         SC         99.4.7.7         P 43         L 44         # 100           Tretter, Albert         Siemens AG	C/         99         SC         99.4.8         P 44         L 48         # 123           Jones, Peter         Cisco
Comment Type <b>T</b> Comment Status <b>D</b> Figure 99–5—Receive Processing State Diagram Transition from state "CHECK FOR RESUME" to state "CHECK FRAG CNT"	Comment Type <b>T</b> Comment Status <b>D</b> I think we need a formulea/express for HRT that takes into account minActFragSize. When minActFragSize > 0, HRT is greate that 1217 bit times.
In front of the "CHECK FRAG CNT" the check of the "Frame Number" is missing! SuggestedRemedy The check of the frame count should be added. Proposed Response Response Status W	SuggestedRemedy Update definition for HRT to account for addFragSize/minActFragSize. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment # 144
PROPOSED ACCEPT IN PRINCIPLE. See Comment #135	C/         99         SC         99.4.8         P 44         L 48         # 144           Mitsuru, Iwaoka         Yokogawa Electric Cor
CI 99       SC 99.4.7.7       P 43       L 45       # 78         Tretter, Albert       Siemens AG         Comment Type       E       Comment Status       D         In Figure 99–5—Receive Processing State Diagram the state "CHECK CHECK FRAG CNT" contains two times "CHECK"       SuggestedRemedy         Please delete one "CHECK"       Proposed Response       Response Status       W         PROPOSED ACCEPT.       V       V       V	Comment Type       T       Comment Status       D       late         Maximum HRT value of 1216 bit times is not satisfied if addFragSize is non-zero .       SuggestedRemedy       Modify the last sentense of the 2nd paragraph of 99.4.8 as follows:       HRT shall be no more than (1216 + 512 * addFragSize) bit times.         Proposed Response       Response Status       W         PROPOSED ACCEPT.       See also Comment #101 which may change the base value.
C/         99         SC         99.4.8         P 44         L 36         # 57           Hajduczenia, Marek         Bright House Network         57	
Comment Type         E         Comment Status         D           State diagrams should be the last subclause describing the given process.	
SuggestedRemedy Move 99.4.8 to 99.4.7 and then 99.4.7 to 99.4.8.	
Proposed Response Response Status W PROPOSED REJECT. This is the postion for delay constraints in other Clauses	

C/ 99 SC 99.4.8

CI 99	SC 99.4.8	P <b>44</b>	L <b>50</b>	# 101	
Tretter, A	lbert	Siemens AG			
Commen	t Type <b>T</b>	Comment Status A			
		emoved prior to publication) -	1140 bit times is	the transmit time for	ra
•	nptable me that is too sr	nall to be transmitted plus an	IPG: 7 octats pr	eamble plus 2 octets	2
	and frag_count	nali to be transmitted plus an			5
•		olus 4 octets CRC plus 12 octe	ets IPG. 1216 al	lows for 96 bit times	to
	nize the HOLD	transmission of a preemptab	le mFrame.		
		,			
Suggeste	dRemedy				
		and octets in the editors note a			
For e	xample 1140 Bit	s are a not an even number of	f octets (142,5 o	ctets).	
Discu	ission necessary	<i>.</i>			
Respons	e	Response Status C			
	EPT IN PRINCIP				
		s some corrections as it wasn't	•	0	
	ets CRC plus 12	eamble plus 2 octets SMD an octets IPG.	d frag_count plu	is 119 octets data p	ius
	·				
That	produces 1144 b	bits			
HRT	will be increased	I to 1240 to keep the 96 bits o	f reaction time.		
"too s	small to be trans	mitted" in the editor's note sho	ould be "too sma	Ill to be preempted"	

C/ 99 SC 99.4.8