CI E SC E.6 Philippe Klein	P <b>265</b> Broadcom	L 11	# 1	C/ <b>13</b> SC <b>13</b> Yuehua Wei	.4 P 179 ZTE	L <b>5</b>	# 4
Comment Type ER NOTE - The Channe SPECIFICATION v2. SuggestedRemedy Remove "the MoCA I Response	MAC/PHY SPECIFICATION v1. Response Status <b>C</b>	) and" from the		This implies that (1) what is a "ph this? (2) since it is a p This statement i implementation	<b>TR</b> Comment Status <b>A</b> if one physical OLT associates wi ysical OLT"? Do you mean an OL hysical OLT, does it communicate s at least strange in the context of details, which are irrelevant in the and associated / connected ONUs	T port, OLT card with physical ON the standard, sin scope of the stan	, OLT chassis? What is IUs or not? ce it enters into dard. For any standard,
CI E SC E.6 Philippe Klein Comment Type ER Table - E2 - gPTP ev		L 43	#  2	to implementation Response	ther remove this statement altoget	Ū	,
SPECIFICATION v2.	control frames as described in 0"	the MoCA MAC	С/РНҮ	Cl 13 SC 13 Yuehua Wei Comment Type	4 P 179 ZTE R Comment Status A	L 40	# [5
Response         ACCEPT. The text w         Cl       13         SC       13.4         Yuehua Wei         Comment Type       T	Response Status C ill be added to Table E-2 to the P 179 ZTE Comment Status D	blank cell. <i>L</i> <b>4</b>	#  3	<ul> <li>(1) What is "802</li> <li>(2) Where are do state machine" (3) "802.3ah" do (4) Which of the</li> </ul>	about Figure 13-2 .3ah/av MAC" and how is it different efinitions of the "802.3ah/av master lefined? A reference would be most es not exist any more, since it was 802.3 PHYs can operate with som ay 10Base-T PHY?	r state machine" st welcome in this incorporated into	and "802.3ah/av slave s place. o base 802.3-2008 text.
	ne over - probably should read ' described communication proto <i>Response Status</i> <b>W</b>		ting time-of-day over",	SuggestedRemedy Per comment. Response ACCEPT IN PR the clause. A cr cross-references	Response Status C NCIPLE. "802.3ah/av" will be repl oss reference will not be added; af s in figures can be dangerous beca ent changes (at least, not with the	ter discussion, it ause they are not	was felt that having automatically updated

"802.3ah/av MAC" will be changed to "MAC". "802.3 PHY" will be changed to "PHY"

C/ 13 SC 13.5.1.1	P 179	L <b>48</b>	# 6	C/ 13	SC 13.5.1.2.2	2 <i>P</i> 180	L 23	# 8
Yuehua Wei	ZTE			Yuehua Wei		ZTE		
	Comment Status <b>A</b> erval" ? Is this defined anywhere	9?			ream MPCP n	Comment Status A nessage that would carry - IN t timestamp	/IHO you use OS	SP message
SuggestedRemedy				SuggestedR	, ,			
Per comment.				Per com	,			
Response	Response Status C			Response		Response Status <b>C</b>		
	ync interval" will be defined in ance that this comment refers			•		E. Group comments 8, 13, 1	4, 15, 16. The te	ext of 13.5.1.2.2 will be
10.6.2.1. Some of the	announce interval" also needs i detailed material currently in 1 announce interval) or 10.6.2.3	0.6.2.1 would m	nore appropriately go	i.e., the	parameter valu	es the time-of-day value at t e is the time-of-day when a would have arrived at the the	downstream MP	
The terms "announce	interval" and "sync interval" wil case, consistently through the o		the "a" of announce	C/ <b>13</b> Yuehua Wei	SC 13.5.1.3	<i>P</i> 180 ZTE	L <b>53</b>	# 9
C/ 13 SC 13.5.1.1 Yuehua Wei	<i>P</i> 179 ZTE	L <b>48</b>	# 7	Comment Ty This prin		Comment Status A ted every - generated by wh	at or at which sid	le of the link?
Comment Type <b>T</b> Change " clock maste	Comment Status A			<i>SuggestedR</i> Per com	2			
0	responder " to " clock slave " tart of Clause 13, that clock ma o duplicate.	aster = requeste	r and clock slave =	Response ACCEP <sup>-</sup>	The text will	Response Status <b>C</b> be reworded as:		
SuggestedRemedy Per comment				"This pri	nitive is gener	ated by the clock master eve	ery"	
Response ACCEPT. The sugges	Response Status <b>C</b> sted changes will be made.							

2.1AS Timing and Synchronization for Time Sensitive Applications in Bridged Local Area Networks comm

C/ 13	SC 13.5.1.4	<i>P</i> 181	L 3	# 10	C/ 13
Yuehua Wei	i	ZTE			Yuehua We

#### Comment Type TR Comment Status D

Upon receipt, a TIMESYNC message is enqueued for transmission. - how do you deal with the transmission delay which a frame can suffer when reaching the MAC layer? MAC layer is not immediately available for transmission. Imagine that the OSSPDU is queued behind a 2k frame, which will introduce additional delay, which is not accounted in the calculations. How is this compensated?

#### SuggestedRemedy

Per comment

#### Proposed Response Response Status W

WITHDRAWN. The comment was withdrawn. In the course of the discussion that led to the withdrawal, it was decided that a note would be useful that indicates that the proper operation of the protocol is not impeded if the TIMESYNC message arrives at the ONU after the time X. The following note will be added:

NOTE - Arrival of the TIMESYNC OSSP message at the ONU after the selected time X does not impede proper operation of the synchronization mechanism defined in this clause.

C/ 13	SC 13.5.2.4	<i>P</i> 181	L <b>43</b>	# 11
Yuehua V	Vei	ZTE		

## Comment Type T Comment Status R

are captured from the respective TIMESYNC message fields - why do we need to mention any implementation details at all? Isn't this obvious that a message would be parsed on reception and individual fields would be processed and sent to respective receiving process?

#### SuggestedRemedy

Strike this text or rewrite to avoid discussion of the obvious.

#### Response

Response Status C

REJECT. This comment is out of scope, as the current ballot is a recirculation ballot, the text the comment is referring to did not change relative to the previous ballot, and the text is not new text.

However, the text is correct; this is what happens. It also is not confusing. Finally, this section is present because an analogous section is present in 13.5.1.

C/ 13	SC 13.6.1	P 181	L <b>49</b>	# 12	l
Yuehua Wei		ZTE			

## Comment Type TR Comment Status A

Is this RTTi updated when the RTT measured for the given ONU changes over time? It is not mentioned anywhere.

#### SuggestedRemedy

Response

Per comment.

#### Response Status C

ACCEPT IN PRINCIPLE. The note will be reworded:

NOTE - RTT is measured and updated by the MPCP using the mechanism specified in IEEE Std 802.3TM-2008 and IEEE Std 802.3avTM-2009, and stored in RTTi when measured and updated. RTTi is not used by the ONU, and is set to zero in an ONU MD entity."

C/ 13	SC 13.7.1.2.5	P 182	L 25	# 13
Yuehua We	i	ZTE		

### Comment Type T Comment Status A

Change to read "13.7.1.2.5 ToDX,i: the time-of-day (i.e., grandmaster time) when a downstream MPCP message carrying a timestamp X (see 13.7.1.2.7) arrives at the clock slave. The data type for ToDX,i is Timestamp."

#### SuggestedRemedy

Per comment

#### Response Response Status C

ACCEPT IN PRINCIPLE. Group comments 8, 13, 14, 15, 16. The text of 13.7.1.2.5 will be reworded as:

"ToD X,i: the time of day (i.e., grandmaster time) at the clock slave that corresponds to X, i.e., the time of day when a downstream MPCP message whose timestamp would be X would have arrived at the clock slave."

C/ 13	SC 13.7.1.2.5	P 182	L 25	# 14
Yuehua We	i	ZTE		

#### Comment Type TR Comment Status A

a downstream MPCP message that would carry - IMHO you use OSSP message (OSSPDU) to carry that timestamp ...

## SuggestedRemedy

Per comment

Response Response Status C

ACCEPT IN PRINCIPLE. Group comments 8, 13, 14, 15, 16. The text of 13.7.1.2.5 will be reworded as indicated in comment 13.

13 SC 13.7.1.2.6 P 182 L 29 # 15	C/ 13 SC 13.7.2.4 P185 L1 # 18
ehua Wei ZTE	Yuehua Wei ZTE
mment Type TR Comment Status A	Comment Type ER Comment Status R
a downstream MPCP message that would carry - IMHO you use OSSP message (OSSPDU) to carry that timestamp	Change the setting for orphan lines in Frame. It seems to force 2 lines to be left on the following page, which produces such straneg results as seen on page 184 and 185.
ggestedRemedy	SuggestedRemedy
Per comment	Per comment
sponse Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE. Group comments 8, 13, 14, 15, 16. The text of 13.7.1.2.6 will be reworded as:	REJECT. This will be fixed by the IEEE staff editors during final editing.
"ToD X,o: the time of day (i.e., grandmaster time) at the clock master that corresponds to	C/ 13 SC 13.8.1 P 185 L 36 # 19
X, i.e., the time of day when a downstream MPCP message whose timestamp would be X	Yuehua Wei ZTE
would have departed the clock master."	Comment Type ER Comment Status R
13 SC 13.7.1.2.6 P182 L 29 # 16	Title of subclause 13.8.1 is not in format compliant with the IEEE style guide. Please correct accordingly.
ehua Wei ZTE	SuggestedRemedy
mment Type T Comment Status A	Per comment
Change to read "13.7.1.2.6 ToDX,o: the time-of-day (i.e., grandmaster time) when a downstream MPCP message carrying a timestamp X (see 13.7.1.2.7) departs from the	Response Response Status C
clock master. The data type for ToDX,o is Timestamp."	REJECT. Any discrepancies with the IEEE style guide will be fixed by the IEEE staff editor
ggestedRemedy	during final editing.
Per comment	C/ 13 SC 13.8.2 P185 L 43 # 20
sponse Response Status C	Yuehua Wei ZTE
ACCEPT IN PRINCIPLE. Group comments 8, 13, 14, 15, 16. The text of 13.7.1.2.6 will be	Comment Type T Comment Status R
reworded as indicated in comment 15.	send TIMESYNC messages when logSyncInterval has this value which value? 127? it is
13 SC 13.7.2.3.1 P 184 L 13 # 17	not immediately clear what value is referenced.
ehua Wei ZTE	SuggestedRemedy
mment Type ER Comment Status A	Per comment
In bullet c): "received TIMESYNC message (see rateRatio)" - this is not a correct	Response Response Status C
reference - provide a numeric reference to that rateRatio and where it is defined using a correct format. Otherwise, the reference seems to be circular.	REJECT. The text is not ambiguous.
ggestedRemedy	
ggestedRemedy Per comment	

C/ 13 SC 13.1.1	P 173 L 11 # 21	C/ 13 SC 13.1.2	P 173	L 20	# 23
uehua Wei	ZTE	Yuehua Wei	ZTE		
omment Type <b>T</b>	Comment Status A	Comment Type TR	Comment Status A		
measurements" that it ma these "timing process and 802.3 and 802.3av which	s contain so much more material than "timing process and akes sense to indicate specific clauses in them which describe d measurements". Include information on specific clauses in both define these "timing process and measurements". Only then it ch information included in the first place.	802.3TM-2008) - such co here. Does this mean tha	2ON relies on the 32-bit cou- ounters are also defined in at the description applies or per reference to 802.3av if the second	802.3av, yet they nly to 1G-EPON a	are not referenced in and not 10G-EPON ?
uggestedRemedy		SuggestedRemedy			
Per comment		Per comment			
esponse	Response Status C	Response	Response Status C		
ACCEPT. The text that of		ACCEPT. Group 23, 24 a at superscript level):	and 26. The reference in pa	arentheses will be	e changed to (with TM
"specified in IEEE Std at superscript level)	802.3TM-2008 and IEEE Std 802.3avTM-2009." (note that TM is	(see 64.2.2.2 of IEEE Sto	d 802.3TM-2008 and 77.2.2	2.2 of IEEE Std 8	02.3avTM-2009)
will be changed to:		C/ <b>13</b> SC <b>13.1.2</b> Yuehua Wei	<i>Р</i> <b>173</b> ZTE	L 22	# 24
	Ranging and Timing Processes) and 64.3.2.4 (Delay				
	Std 802.3TM-2008, and 77.2.1 (Ranging and Timing Processes) rements) of IEEE Std 802.3avTM-2009." (note that TM is at	Comment Type T is equal to 16 ns (see 64	Comment Status A .2.2.1 of IEEE Std 802.3TM	/I-2008) time c	quantum is also
superscript level)			needs to be referenced as	well. Note that in	
13 SC 13.1.1	P 173 L 15 # 22	of time_quantum was ge		well. Note that in	
13 SC 13.1.1	P <b>173</b> L <b>15</b> # 22 ZTE		needs to be referenced as	well. Note that in	
13 SC 13.1.1 uehua Wei comment Type TR		of time_quantum was ge SuggestedRemedy Per comment	needs to be referenced as neralized and included in c	well. Note that in	
13SC 13.1.1Jehua Wei <i>omment Type</i> TRAlso against line 16.What is an "EPON link"?	ZTE	of time_quantum was ge SuggestedRemedy Per comment Response	needs to be referenced as	well. Note that in lause 1.	802.3av, the definition
13 SC 13.1.1 Jehua Wei <i>comment Type</i> TR Also against line 16. What is an "EPON link"? matter. Provide a formal	ZTE Comment Status A There is no such definition in 802.1, 802.3 or 802.3av for that	of time_quantum was ge SuggestedRemedy Per comment Response ACCEPT. Group 23, 24 a at superscript level):	needs to be referenced as neralized and included in c <i>Response Status</i> <b>C</b>	well. Note that in lause 1. arentheses will be	e changed to (with TM
<b>13</b> SC <b>13.1.1</b> Juehua Wei <i>comment Type</i> <b>TR</b> Also against line 16. What is an "EPON link"? matter. Provide a formal has? What about ONUs weil?	ZTE Comment Status A There is no such definition in 802.1, 802.3 or 802.3av for that definition. What does it contain? How many EPON links an ONU	of time_quantum was ge SuggestedRemedy Per comment Response ACCEPT. Group 23, 24 a at superscript level):	needs to be referenced as neralized and included in c <i>Response Status</i> <b>C</b> and 26. The reference in pa	well. Note that in lause 1. arentheses will be	e changed to (with TM
<b>13</b> SC <b>13.1.1</b> Juehua Wei <i>comment Type</i> <b>TR</b> Also against line 16. What is an "EPON link"? matter. Provide a formal has? What about ONUs weil?	ZTE Comment Status A There is no such definition in 802.1, 802.3 or 802.3av for that definition. What does it contain? How many EPON links an ONU	of time_quantum was ge SuggestedRemedy Per comment Response ACCEPT. Group 23, 24 a at superscript level):	needs to be referenced as neralized and included in c <i>Response Status</i> <b>C</b> and 26. The reference in pa	well. Note that in lause 1. arentheses will be	e changed to (with TM
<b>113</b> SC 13.1.1 uehua Wei omment Type <b>TR</b> Also against line 16. What is an "EPON link"? matter. Provide a formal has? What about ONUs v EPON link as well? uggestedRemedy Per comment	ZTE Comment Status A There is no such definition in 802.1, 802.3 or 802.3av for that definition. What does it contain? How many EPON links an ONU	of time_quantum was ge SuggestedRemedy Per comment Response ACCEPT. Group 23, 24 a at superscript level):	needs to be referenced as neralized and included in c <i>Response Status</i> <b>C</b> and 26. The reference in pa	well. Note that in lause 1. arentheses will be	e changed to (with TM
<b>113</b> SC 13.1.1 uehua Wei comment Type <b>TR</b> Also against line 16. What is an "EPON link"? matter. Provide a formal has? What about ONUs v EPON link as well? uggestedRemedy Per comment esponse ACCEPT. The following	ZTE Comment Status <b>A</b> There is no such definition in 802.1, 802.3 or 802.3av for that definition. What does it contain? How many EPON links an ONU which have more than one customer (MDU)? Do they have one	of time_quantum was ge SuggestedRemedy Per comment Response ACCEPT. Group 23, 24 a at superscript level):	needs to be referenced as neralized and included in c <i>Response Status</i> <b>C</b> and 26. The reference in pa	well. Note that in lause 1. arentheses will be	e changed to (with TM

12.1AS Timing and Synchronization for Time Sensitive Applications in Bridged Local Area Networks comm

	SC 13.1.2	P 173	L 23	# 25	C/ 13
Yuehua We	i	ZTE			Yuehua V
does a mean?	nables a MAC MAC client "par	Comment Status A client to participate in a point ticipate in a point-to-multipoi is allowed to transmit over P doubt.	nt optical networ	k" ? What does this	Commen using Std 1 IEEE Suggeste
SuggestedF	-				Per c
		clarification of what it means cal network" or change the w			Respons ACC
Response		Response Status C			
ACCEP	T. The text will	be revised to read:			"usi
	CP), which is or -multipoint optic	ne of the protocols that enabl cal network."	es MAC clients t	o communicate over a	<i>Cl</i> <b>13</b> Yuehua V
C/ 13	SC 13.1.2	P 173	L 25	# 26	Commen
Yuehua We	-	ZTE			The of the
Comment T		Comment Status A 802.3TM-2008 specifies the	EPON timing m	achanism <sub>-</sub> it is my	be co
belief th	nat so does clau	ise 77 of 802.3av-2009, yet i			Suggeste
	an that this des	cription applies to 1G-EPON	only? Clarify and	d add proper reference	
to Claus	se 77 as well.	cription applies to 1G-EPON	only? Clarify and	add proper reference	Pero
	se 77 as well. Re <i>m</i> edy	cription applies to 1G-EPON	only? Clarify and	a add proper reference	Per o Respons ACC
to Claus SuggestedF Per con Response	se 77 as well. R <i>emedy</i> nment	cription applies to 1G-EPON <i>Response Status</i> <b>C</b>	only? Clarify and	d add proper reference	Per o <i>Respons</i> ACC "The
to Claus SuggestedF Per con Response ACCEP	se 77 as well. Re <i>medy</i> nment PT. Group 23, 24	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha	only? Clarify and	d add proper reference I at superscript level):	Per o <i>Respons</i> ACC "The
to Claus SuggestedF Per con Response ACCEP Clause	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7	only? Clarify and	d add proper reference I at superscript level):	Per o Respons ACC "The the E
to Claus SuggestedF Per con Response ACCEP Clause the EPC Cl 13	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std DN timing mech SC <b>13</b>	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7	only? Clarify and	d add proper reference I at superscript level):	Per of Respons ACC "The the E C/ 13 Yuehua V Commen Bulle
to Claus SuggestedF Per con Response ACCEP Clause the EPC Cl 13	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std DN timing mech SC <b>13</b> i	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7 anism. <i>P</i> <b>173</b>	only? Clarify and inged to (with TM 7 of IEEE Std 80	d add proper reference // at superscript level): /2.3avTM-2009 specify	Per of Respons ACC "The the E C/ 13 Yuehua N Commen Bulle EPO
to Claus SuggestedF Per con Response ACCEP Clause the EPC Cl 13 Yuehua We Comment T Clause	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std ON timing mech SC 13 i <i>Sype</i> ER 13 does not me	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7 anism. <i>P</i> <b>173</b> <i>Z</i> TE	only? Clarify and anged to (with TM 7 of IEEE Std 80 <i>L</i> 1 Style Manual, so	d add proper reference A at superscript level): 12.3avTM-2009 specify # 27 ection 11 and as such	Per of Respons ACC "The the E C/ 13 Yuehua N Commen Bulle EPO gues Suggeste
to Claus SuggestedF Per con Response ACCEP Clause the EPC Cl 13 Yuehua We Comment T Clause	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std DN timing mech SC 13 i SC 13 i 13 does not me not be progress	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7 anism. <i>P</i> <b>173</b> <i>Z</i> TE <i>Comment Status</i> <b>X</b> set the 2009 IEEE Standards	only? Clarify and anged to (with TM 7 of IEEE Std 80 <i>L</i> 1 Style Manual, so	d add proper reference A at superscript level): 12.3avTM-2009 specify # 27 ection 11 and as such	Per of Respons ACC "The the E C/ 13 Yuehua V Commen Bulle EPO gues Suggeste Per of
to Claus SuggestedF Per con Response ACCEP Clause the EPC Cl 13 Yuehua We Comment T Clause should r	se 77 as well. Remedy nment PT. Group 23, 24 64 of IEEE Std DN timing mech SC 13 i Sype ER 13 does not me not be progress Remedy	cription applies to 1G-EPON <i>Response Status</i> <b>C</b> 4 and 26. The text will be cha 802.3TM-2008 and clause 7 anism. <i>P</i> <b>173</b> <i>Z</i> TE <i>Comment Status</i> <b>X</b> set the 2009 IEEE Standards	only? Clarify and anged to (with TM 7 of IEEE Std 80 <i>L</i> 1 Style Manual, so	d add proper reference A at superscript level): 12.3avTM-2009 specify # 27 ection 11 and as such	Per of Respons ACC "The the E C/ 13

C/ 13	SC 13.1.3.1	P 17:	3 L 37	# 2	8
Yuehua Wei		ZTE		-	

#### omment Type т Comment Status A

using the acceptable master table feature of IEEE Std 1588TM - 2008 (see 17.6 of IEEE Std 1588TM - 2008). change to c"using the acceptable master table feature (see 17.6 of IEEE Std 1588TM - 2008)."

#### uggestedRemedy

Per comment. Repetition of reference to IEEE 1588 is not needed.

esponse Response Status C

ACCEPT IN PRINCIPLE. The text will be changed to

"...using the acceptable master table feature defined in 17.6 of IEEE Std 1588TM - 2008."

C/ 13	SC 13.1.3.3	P 174	L 9	# 29
Yuehua W	ei	ZTE		

#### omment Type T Comment Status A

The AcceptableMaster type represents an acceptable master port. - which specific property of the "acceptable master port" does it represent? The text is not precise enough and can be confusing.

#### iggestedRemedy

Per comment - provide clarificationi / extend the text.

Response	Response Status	С
Reoponoe	Response Status	

ACCEPT. The text will be changed to:

"The AcceptableMaster type represents a port that can be considered, in the execution of the BMCA, as a candidate for master."

C/ 13	SC 13.1.3.4	P 174	L 27	# 30
Yuehua Wei		ZTE		

omment Type TR Comment Status R

Bullet b.1 is most unclear - suggest to create a specific version of 10.3.10.2.1 applicable to EPON only and then reference it from here, rather than forcing a reader / implementer to guess what conditions becoem invalid and which still hold.

#### iggestedRemedy

Per comment.

#### Response Status C

REJECT. This comment is out of scope of the recirculation because the text did not change. In addition, the text is clear.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

/uehua Wei ZTE	C/ <b>13</b> Yuehua Wei	SC <b>13.1.4</b> i	P 17: ZTE	5 L 20	# 33
Comment Type <b>TR</b> Comment Status <b>R</b> Does it mean that there is a link entry in the table per ONU? What about ONUs with port protection feature? Do they count as two? How is this related to EPON link which was used in 13.1.2?	SuggestedR	20 and 21, rem Remedy	Comment Status A	-	nces
SuggestedRemedy	Per com	nment	Deserves Official	-	
Per comment.	Response	T. The two inc	Response Status of the will be re		
Response Response Status C	ACCEI			entoved.	
REJECT. On the first item, it is stated in 13.1.1 (p. 173, line 14) that a time-aware system contains at most one ONU (though it may contain more than one OLT). With this statement, 802.1AS is limited to time-aware bridges that have at most one ONU.	C/ <b>13</b> Yuehua Wei	SC <b>13.1.4</b> i	P 17 ZTE	5 L 24	# 34
Therefore, a situation where more than one entry in the AcceptableMasterTable does not	Comment T	ype <b>TR</b>	Comment Status	A	
arise. On the second item, EPON does not have a protection feature.					avelengths do not have
C/ 13 SC 13.1.3.5 P 175 L 4 # 32 /uehua Wei ZTE		ent i.e. refracti	he fibre material in which we index of fibre glass		
	· · · ·	Pemedy			
Comment Type TR Comment Status A	SuggestedR	(enneuy			
OLT will be considered better than the ONU - better in what terms? Please clarify what you	SuggestedR Per com	•			
	Per com <i>Response</i> ACCEP	nment	Response Status ( ments 34 and 35. The s		velength has a different
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambiguous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such	Per com <i>Response</i> ACCEP will be c	nment T. Group com changed to:	, ments 34 and 35. The s	entence "Each wav	J.
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambigiuous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes.	Per com <i>Response</i> ACCEP will be c "The inc	nment T. Group comi changed to: dex of refractio	,	entence "Each wav	J.
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambiguous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes.	Per com Response ACCEP will be c "The inc downstr	nment T. Group comi changed to: dex of refractio ream delays be	ments 34 and 35. The s on is frequency depende eing asymmetric."	entence "Each way	the upstream and
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambiguous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes.	Per com <i>Response</i> ACCEP will be c "The inc	T. Group comic changed to: dex of refractio ream delays be SC 13.1.4	ments 34 and 35. The s	entence "Each way	J.
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambigiuous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes. SuggestedRemedy Per comment Response Response Status <b>C</b>	Per com Response ACCEP will be c "The inc downstr C/ 13	nment PT. Group comp changed to: dex of refractio ream delays be SC <b>13.1.4</b> i	ments 34 and 35. The s on is frequency depende eing asymmetric." <i>P</i> 17:	entence "Each way int, which results in 5 <i>L</i> 25	the upstream and
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambigiuous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes. SuggestedRemedy Per comment Response Response Status C ACCEPT IN PRINCIPLE. The text on p.175 line 4 that currently reads:	Per com Response ACCEP will be c "The inc downstr Cl 13 Yuehua Wei Comment Ty result in (1) EPC (2) state upstrear asymmet	T. Group comic changed to: dex of refractio ream delays be SC 13.1.4 i SC 13.1.4 i transmission N link is again ement is impre m and downstr etric and not th	ments 34 and 35. The s on is frequency depende eing asymmetric." <i>P</i> 174 ZTE <i>Comment Status</i> time difference across a n used without definition cise. What results from ream wavelengths is the nat there is some "transr	entence "Each way int, which results in 5 <i>L</i> 25 A an EPON link. of what this is difference in refrac e fact that downstre nission time differe	the upstream and # <u>35</u> tive index in SMF for am and upstream delay
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambigiuous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes. SuggestedRemedy Per comment Response Response Status C ACCEPT IN PRINCIPLE. The text on p.175 line 4 that currently reads: "ensures that the OLT will be considered better than the ONU in the BMCA, which will" will be change to: "ensures that the OLT will be considered better than the ONU in the sense of the BMCA,	Per com Response ACCEP will be c "The inc downstr Cl 13 Yuehua Wei Comment Ty result in (1) EPC (2) state upstrear asymmet	T. Group comp changed to: dex of refractio ream delays be SC 13.1.4 i ype TR transmission DN link is again ement is impre m and downsti etric and not th fifed EPON link tatement. Remedy	ments 34 and 35. The s on is frequency depende eing asymmetric." <i>P</i> 174 ZTE <i>Comment Status</i> time difference across a n used without definition cise. What results from ream wavelengths is the nat there is some "transr	entence "Each way int, which results in 5 <i>L</i> 25 A an EPON link. of what this is difference in refrac e fact that downstre nission time differe	the upstream and # <u>35</u> tive index in SMF for eam and upstream delay ince across" some
OLT will be considered better than the ONU - better in what terms? Please clarify what you mean in here and do not use ambigiuous language, even though this is just a note. Suggest to move this text to an informative annex to Clause 13, including more material on this particular topic, since it is not entirely clear to me how corner cases are resolved. Such material should be always included in informative annexes and not half a page long notes. SuggestedRemedy Per comment Response Response Status C ACCEPT IN PRINCIPLE. The text on p.175 line 4 that currently reads: "ensures that the OLT will be considered better than the ONU in the BMCA, which will" will be change to: "ensures that the OLT will be considered better than the ONU in the sense of the BMCA,	Per com Response ACCEP will be c "The inc downstr C/ 13 Yuehua Wei Comment Ty result in (1) EPO (2) state upstrean asymme unspeci target st SuggestedR	T. Group comp changed to: dex of refractio ream delays be SC 13.1.4 i ype TR transmission DN link is again ement is impre m and downsti etric and not th fifed EPON link tatement. Remedy	ments 34 and 35. The s on is frequency depende eing asymmetric." <i>P</i> 174 ZTE <i>Comment Status</i> time difference across a n used without definition cise. What results from ream wavelengths is the nat there is some "transr	entence "Each way int, which results in 5 <i>L</i> 25 A an EPON link. of what this is difference in refrac e fact that downstre mission time differe and make sure that	the upstream and # <u>35</u> tive index in SMF for eam and upstream delay ince across" some

		Ū			••		-			
C/ <b>13</b> Yuehua Wei	SC 13.1.4	<i>P</i> 175 ZTE	L 31	# 36	C/ <b>13</b> Yuehua V		13.1.4	<i>P</i> 176 ZTE	L 1	# 38
Comment Typ		Comment Status A			Commen	t Type	TR	Comment Status A		
measure? queuing c	? How can yo delays betwee	racy" ? Is it higher than 1 time u even achieve such level of p en MPCP and MAC layers ?	precision given t	ne unpredistable	both	ToD valu	ues is so c	nore confusing texts I have se obfuscated that reading the te as such a confusing descripo	ext and formula,	
Suggest t in EPON.		th high accuracy" and dewcrib	be what level of a	accuracy is achievable	Suggeste	edRemed	ly			
SuggestedRe Per comm Response	emedy nent	Response Status <b>C</b>			formu the ti dowr	ula (13-1 mestamp nstream l	). ToDX,o o X deparl MPCPDU	e clock master calculates the is the exact time-of-day at w is from the clock master. To Carring the timestamp X arriv ir list of acronyms.	hich a downstre X,i is the exact	am MPCPDU carring time-of-day at which a
		.E. The words "with high accur rformance-related information			Respons	е		Response Status C		
					ACC	EPT IN F	PRINCIPL	E. The text will be changed to	o:	
<i>Cl</i> <b>13</b> Yuehua Wei	SC 13.1.4	<i>P</i> 175 ZTE	L <b>54</b>	# 37	"The	clock ma	aster calci	ulates ToDX,i based on ToD>	<,ο, using	
Comment Typ selects a		Comment Status <b>A</b> what timestamp? At what lave	er? Be specific			•	U	, as written in the document>		(13-1)
SuggestedRe Per comn	•	ambigiuous and confusing.	·		the ti dowr	mestam istream l	o X would MPCP me	e of day at which a downstre have arrived at the clock slav ssage that would carry the tir	ve, ToDX,o is th mestamp X wou	ne time of day at which a Ild have departed the
Response		Response Status C						e round-trip time measured I ffective index of refraction fo		
ACCEPT currently		g will be added to 13.1.4 (a) (	i.e., to follow the	sentence that is	the o	ptical pa	th, and no	lown is the effective index of optical path.		
Any times MPCP co		nay be chosen, provided it is i	relative to the cu	rrent epoch of the	C/ <b>13</b> Yuehua V		13.1.4	<i>Р</i> <b>176</b> ZTE	L 1	# 39
						llet b) yo		Comment Status D r to MPCP message while se OSSPDU in use. Which is it		ly specifies an OSSP
					Suggeste	edRemed				

Per comment

Proposed Response Response Status W

PROPOSED REJECT. It is the MPCP message that is the event message. The TIMESYNC message carries the time of day that corresponds to X; it is a general message, analogous to Follow\_Up. However, to clarify this the following sentence will be added as the first sentence of the paragraph immediately following bullet item (d):

The OSSP message is a general message, analogous to Follow\_Up.

<b>13</b> SC <b>13.1.4</b> <i>P</i> <b>176</b> <i>L</i> <b>11</b> # 40 ehua Wei ZTE	C/ 13 SC 13.2.1 P 176 L 32 # 42 Yuehua Wei ZTE					
omment Type TR Comment Status A	Comment Type TR Comment Status A					
Due to variations in transmission wavelength in both upstream and downstream channels,	What is a "general message"? are there any messages which are not "general" ?					
the used values of refractive indices need to be corrected accordingly. Either include correction factors or state clearly to what extent the outcome of formula (13-1) is affected by changes in the refractive index for SMF.	SuggestedRemedy Per comment.					
ggestedRemedy Per comment.	Response Response Status C ACCEPT. After "general message", a cross reference to 8.4.2.2:					
sponse Response Status C	(see 8.4.2.2)					
ACCEPT IN PRINCIPLE. The following sentence will be added to the end of bullet item (b) of 13.1.4:						
"The impact of the worst-case variation in the transmission wavelength for the clock master	C/ 13 SC 13.2.1 P 176 L 33 # 43					
and clock slave transmitters is examined in Annex VII of ITU-T G.984.3, Amendment 2 (11/2009)."	Yuehua Wei ZTE					
The following reference will be added to clause 2 (all the references in clause 2 are normative):	Comment Type T Comment Status A It is transmitted by the OLT and received by the ONU					
,	change to "It is transmitted in the downstream direction"					
ITU-T Recommendation G.984.3, Amendment 2, 2009, Gigabit-capable Passive Optical Networks (G-PON): Transmission convergence layer specification, ITU-T, Geneva,	SuggestedRemedy					
November, 2009.	Per comment					
(note that the title "Gigabit-capable" will be italicized when the reference is added to	Response Response Status C					
clause 2).	ACCEPT IN PRINCIPLE. The text will be changed to:					
13 SC 13.1.4 P 176 L 16 # 41						
ehua Wei ZTE	"It is transmitted in the downstream direction, from OLT to ONU."					
mment Type TR Comment Status R	C/ 13 SC 13 P 174 L 1 # 44					
plus any processing delays - such delays are not measurable at the ONU level. How do	Yuehua Wei ZTE					
you expect for the ONU to know precisely its own processing delays? State clearly how such delay can be measured (if there is a mechanism for that) or indicate that it is	Comment Type ER Comment Status A					
implementation dependent.	Clause 13 has all of its cross references dead i.e. it is not possible to jump to the given					
ggestedRemedy Either way, clarification is needed on this point.	indicated reference. Please add that capability, which greately facilitates reading and analysis					
	SuggestedRemedy					
sponse Response Status C	Per comment					
REJECT. This comment was made by this voter before, in comment #12 and #13 of the D6.1 ballot; a similar comment was made by this voter as comment #162 of the D6.2	Response Response Status C					
ballot. In D6.1, the term "internal delay" was used; this term was changed to "processing delay" as a result of the resolution of comments 12 and 13 of D6.1. However, this was only a change in nomenclature, the term "processing delay" still refers to the delay between the processing of the timestamp and the setting of the internal clock. It was agreed by the AVB TG that the determination of this delay is an implementation issue.	ACCEPT. Note that not all cross-references in clause 13 are dead; however, those that are dead will be fixed.					
PE: TR/technical required ER/editorial required GR/general required T/technical E/editoria DMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open DRT ORDER: Comment ID	I G/general W/written C/closed U/unsatisfied Z/withdrawn Comment ID # 44 2/17/2010 3					

C/ 13	SC 13.3.1.2.1	P 176	L <b>49</b>	# 45	C/ 15	SC 15.3	P 205	L1	# 48		
/uehua W		ZTE			Norm Finn		Cisco				
Comment	••	nment Status A			Comment 7		Comment Status A				
change	estination address field i e to lestination address field				useful i Require	n cleaning up MIB ed comment. The	tool at http://www.ibr.cs.tu- s. Other tools may also be tool reported the following	e used. That is v errors: mibs/80	why this is not a		
uggested	Remedy				mibs/80	)2.1as-D6.6.mib:4	vision date after last updat 7: [3] {revision-missing} re 4: [1] {out-of-range-unsign	vision for last up	date is missing		
esponse ACCE	Resp PT. The extra instance of	oonse Status <b>C</b>	removed		`79228 mibs/8(	162514264337593 )2.1as-D6.6.mib:5	3543950335' is out of rang 4: [5] {integer-misuse} war	e for SPPI 64bit			
7.002						ER in SMIv2 )2 1as-D6 6 mib <sup>.</sup> 5	4: [2] {range-exchanged} r	ange limits must	t be `lower-bound		
/ 13	SC 13.3.1.2.8	P 178	L <b>6</b>	# 46	upper-t				the lower bound		
uehua W	ei	ZTE					6: [1] {out-of-range-signed				
omment	Type <b>TR</b> Con	nment Status A					771975168' is out of SMIv		number range		
	3.3.4 Timestamp, this va		as composed of	Illatogor/8 soconds:			6: [1] {out-of-range-unsign 6771975167' is out of rang		unsigned numbers		
UInteg	er32 nanoseconds; if su	ich a definition holds.	then what "subn	anosecond portion of			6: [5] {integer-misuse} war		0		
	onized time" is refereed					ER in SMIv2					
variabl	le type IMHO.						1: [5] {integer-misuse} war	ning: use Intege	r32 instead of		
uggested	Remedy					ER in SMIv2	1: [2] (range evelopged) r	ango limito muol	the `lower bound		
	what you mean in note	in line 11 and whethe	r that is consiste	nt in any way with the		mibs/802.1as-D6.6.mib:61: [2] {range-exchanged} range limits must be `lower-bound upper-bound'					
	on included in 6.3.3.4 T			· · <b>,</b> · <b>,</b> · · · ·			1: [5] {identifier-basetype-r	edefined} warnii	ng: definition of		
esponse	Resi	oonse Status <b>C</b>					nich is already a SMI or SF		-		
•	PT. In 802.1AS (and in l		anosecond portic	on of synchronized time			2: [5] {integer-misuse} war	ning: use Intege	r32 instead of		
	ied in the correction field					ER in SMIv2	3: [5] {integer-misuse} war	nina: uso Intogo	vr32 instand of		
to read		, . ,				ER in SMIv2		ning. use intege			
						-	4: [5] {integer-misuse} war	ning: use Intege	r32 instead of		
	ubnanosecond portion of	•				ER in SMIv2					
field (s	ee 10.2.2.1.2, 10.2.2.2.	2, and 10.2.2.3.4), is i	not transported o	ver EPON.	mibs/80	2.1as-D6.6.mib:6	5: [5] {integer-misuse} war	ning: use Intege	er32 instead of		
/ 10	SC 10.2.3.2	P 78	L 32	# 47		ER in SMIv2	6: [5] {integer-misuse} war	nina: uso Intego	r32 instead of		
evin Stan		Intel	-			ER in SMIv2	o. [o] (meger-mouse) wai	mig. use miege			
							64: [4] {hyphen-in-label} w	arning: named n	lumber		
Comment	51	nment Status A			`timeAc	curateTo2-5us' m	ust not include a hyphen ir	n SMIv2			
i ne fin	st sentence is either mis	ssing a word or is awk	wardly phrased.				70: [4] {hyphen-in-label} w		lumber		
Suggested	Remedy						nust not include a hyphen i 79: [1] {internal-other} synt		ected '}' expecting		
Insert	"messages" and strike "	of", causing the sente	nce to read: "a v	ariable containing the		RCASE IDENTIFI			solution J, expecting		
	time interval between su				mibs/80	)2.1as-D6.6.mib:1	79: [5] {internal-flushing} w	arning: flushing/	recent incorrect		
	ation by", or perhaps		en successive in	stants when time-		tion, see previous					
	onization information is	. ,					75: [2] {underscore-in-ider	ititier} identifier `	atomic_Clock' must r		
Response	Resp	oonse Status C				an underscore 2 1as-D6 6 mib:3	77: [2] {underscore-in-ider	tifier} identifier `	terrestrial Radio' mu		
ACCE	PT. "messages" will be i	nserted and "of" will t	e stricken.			tain an underscore		anory identified			
					mibs/80		80: [2] {underscore-in-ider	tifier} identifier `	hand_Set' must not		

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID # 48