Cl 22 SC P7 L1 Don Pannell Marvell Semiconductor	# 929	CI 22 Squire, Matt	SC 22.2.4.1	н	P 9 atteras Networ	L 18	# 178
Comment Type TR Comment Status D		Comment Typ	e E	Comment Sta			
Clause 22 needs to be modified to support a standard way to access Clau Without this new 802.3ah PHYs will not be able to connect with existing N and switches.	use 45 registers. /II based CPUs	"OAM En	able" seems a		or the title of th		is it only controls the
uggestedRemedy		SuggestedRe "Change		o "Enabled Unic	lirectional OAN	Л"	
A proposal "pannell_1_1102" will be presented at the November 2002 me	eeting.	Proposed Res	sponse	Response Sta	tus W		
Proposed Response Response Status W PROPOSED ACCEPT.		PROPOS	ED ACCEPT.				
22 SC 22.2.4.1 P9 L17	# 913	<i>Cl</i> 22 Squire, Matt	SC 22.2.4.1.1		P 9 atteras Networ	L 40 ks	# 180
om Mathey Independent omment Type T Comment Status D If we are opening up the bit assignments for the control register, how abo	ut adding hits for					zero in bit 0.1	" is incorrect as the
resolved speed, duplex, and a pass/fail indication for resolution to a comm		SuggestedRe		10111.7.			
uggestedRemedy			-	spell value corre	ctly:)		
Use 0.5:4 for speed as follows: Rate Indication: These bits indicate the result of the auto-negotiation for as follows:	data rate arbitration	Proposed Res PROPOS	sponse ED REJECT.	Response Sta	tus W		
0.5 0.4 1 1 = Reserved 1 0 = 1000Base-X was the highest common denominator							s the ability to operators the value 0.
0.1 – 100Base-TX was the highest common denominator							
0 1 = 100Base-TX was the highest common denominator 0 0 = 10Base-T was the highest commondenominator		CI 22	SC 22.2.4.1.1	2	P 9	L 42	# 115
0 0 = 10Base-T was the highest commondenominator		C/ 22 Martin, David	SC 22.2.4.1.1		P9 ortel Networks		# 115
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation fo as follows: 	r duplex arbitration	-			ortel Networks		# <u>115</u>
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation fo 	r duplex arbitration	Martin, David Comment Typ Typo SuggestedRe	e E	N Comment Sta	ortel Networks		# <u>115</u>
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation fo as follows: 0: half-duplex was the highest common denominator 1: full-duplex was the highest common denominator Use 0.2 for common resolution as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for resolution as follows: 		Martin, David Comment Typ Typo SuggestedRe Change " Proposed Res	be E medy alue" to "value	N Comment Sta	ortel Networks tus D		# <u>115</u>
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation fo as follows: 0: half-duplex was the highest common denominator 1: full-duplex was the highest common denominator Use 0.2 for common resolution as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for 		Martin, David Comment Typo SuggestedRe Change " Proposed Res PROPOS	medy alue" to "value" sponse ED ACCEPT. SC 22.2.4.1.1 2	N Comment Sta '. Response Sta 2	tus W		# <u>115</u> # <u>331</u>
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for as follows: 0: half-duplex was the highest common denominator 1: full-duplex was the highest common denominator Use 0.2 for common resolution as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for resolution as follows: 0: arbitration did not resolve to a greatest common demonitator 1: arbitration did resolve to a greatest common demonitator Add supporting text (at editors choice) in new paragraphs. 		Martin, David Comment Typ Typo SuggestedRe Change " Proposed Res PROPOS C/ 22 Brown, Benja	me E medy alue" to "value" sponse ED ACCEPT. SC 22.2.4.1.12 min	N Comment Sta '. Response Sta 2 A	tus W		
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for as follows: 0: half-duplex was the highest common denominator 1: full-duplex was the highest common denominator Use 0.2 for common resolution as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for resolution as follows: 0: arbitration did not resolve to a greatest common demonitator 1: arbitration did not resolve to a greatest common demonitator Add supporting text (at editors choice) in new paragraphs. 		Martin, David Comment Typo SuggestedRe Change " Proposed Res PROPOS	ne E medy alue" to "value" sponse ED ACCEPT. SC 22.2.4.1.12 min ne E	N Comment Sta '. Response Sta 2	tus W		
 0 0 = 10Base-T was the highest commondenominator Use 0.3 for Duplex as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for as follows: 0: half-duplex was the highest common denominator 1: full-duplex was the highest common denominator Use 0.2 for common resolution as follows: Duplex Indication: This bit indicates the result of the auto-negotiation for resolution as follows: 0: arbitration did not resolve to a greatest common demonitator 1: arbitration did not resolve to a greatest common demonitator Add supporting text (at editors choice) in new paragraphs. 		Martin, David Comment Typ Typo SuggestedRe Change " Proposed Res PROPOS C/ 22 Brown, Benjal Comment Typ misspellir SuggestedRe	me E medy alue" to "value sponse ED ACCEPT. SC 22.2.4.1.12 min pe E 19	N Comment Sta '. Response Sta 2 A Comment Sta	tus W		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 1 of 190 C/ 22 SC 22.2.4.1.12

C/ 22 SC 22.2.4.2 P 10 L 1 # 1 Daines, Kevin World Wide Packets Image: Control of the second	C/ 24SCP11L34#2Daines, KevinWorld Wide Packets
Comment Type E Comment Status D Table is incorrectly numbered and named.	Comment Type E Comment Status D Tabs missing in Revision History section.
SuggestedRemedy Should read "Table 22-8 - Status register bit definitions"	SuggestedRemedy Add tabs for readability.
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 22 SC Table 22-7 P 9 L 15 # 179 Squire, Matt Hatteras Networks	C/ 24 SC 24.2.2.1.7 P12 L27 # 4 Daines, Kevin World Wide Packets World Wide Packets H 4 4
Comment Type E Comment Status D Why are we skipping bits 5:2 instead of just placing the new bit in sequential order?	Comment Type E Comment Status D Register is incorrectly named.
SuggestedRemedy Put it in the first available bit.	SuggestedRemedy Change "MDIO register bits" to "Coding Violation Counter register bits"
Proposed Response Response Status W PROPOSED REJECT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
This is an attempt to reconcile this register with the x.0.15:0 registers from Clause 45. In this clause, all of these registers use bits 5:2 for Speed Selection. Their next reserved bit is bit 1.	This text came from an attempt to borrow text from 49.2.14.1. However, to borrow this appropriately, the word "bits" should be removed. The idea is to point to the MDIO register bits and not simply to a counter name.
	C/ 24 SC 24.2.3.2 P12 L10 # 181
rown, Benjamin AMCC	Cl 24 SC 24.2.3.2 P12 L 10 # 181 Squire, Matt Hatteras Networks Comment Type E Comment Status D To go along with an earlier comment, "OAM capability" is misleading.
Brown, Benjamin AMCC Comment Type E Comment Status D Throughout the changed section of this clause, the MII is referenced where both the MII and GMII should be referenced. Other locations include: 22.2.4.1.12, page 9, lines 40, 42 & 43 Table 22-7 Table 22-7	Squire, Matt Hatteras Networks Comment Type E Comment Status D
Brown, Benjamin AMCC Comment Type E Comment Status D Throughout the changed section of this clause, the MII is referenced where both the MII and GMII should be referenced. Other locations include: 22.2.4.1.12, page 9, lines 40, 42 & 43	Squire, Matt Hatteras Networks Comment Type E Comment Status D To go along with an earlier comment, "OAM capability" is misleading. SuggestedRemedy

			P802.3ah	02.3ah Draft 1.0 Comments				
Cl 24 Daines, Ke	SC 24.2.3.2	P 12 World Wide Pa	L10 ckets	# 3	C/ 24 Daines, Kev	SC Figure 2	24-8 P13 World Wide	
Comment Regist	<i>Type</i> E ter bit is incorrect	Comment Status D			Comment Ty Not equ		Comment Status D as been changed to 1/4 syml	
Suggested Chang	-	bit 0.1" to "Control register bit	0.1".		SuggestedR Replace	,	vith not equal to symbol (ALT-	
Proposed PROP	Response POSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed R PROPO	esponse ISED ACCEPT	Response Status W	
		attempt to borrow text from 49			l agree.	I need help fro	om the chief editor on this.	
bits ar	nd not simply to a				<i>Cl</i> 30 Daines, Kev	SC in	P 15 World Wide	
Cl 24 Cravens, 0	SC 24.2.4.2 George	P12 Mindspeed	L 44	# 434	Comment Ty		Comment Status D	
	tates "Add new te	Comment Status D erm at the top of Figure 24-8:", 8.4.5 got inserted before Figure		term shown. (It seems	Tabs missing from Revision History section. SuggestedRemedy Add tabs for readability.			
Suggested Move	,	to follow Figure 24-8.			Proposed R PROPO	esponse SED ACCEPT	Response Status W	
Proposed PROP	Response POSED ACCEPT	Response Status W IN PRINCIPLE.			C/ 30 Ho-Sook Lee	SC 30.11	Р 30 ЕТПІ	
This is	s a formatting thin	g that the chief editor needs to	help with. It co	ould be that the figure is	Comment T	vpe T	Comment Status D	

This is a formatting thing that the chief editor needs to help with. It could be that the figure is allowed to float to reduce the amount of white space between text references and the figures.

World Wide Packets

L1

C/ 24 SC Figure 24-8 Daines, Kevin

P13

5

Comment Type E Comment Status D

Left-pointing assignment operator arrows have been lost from this figure.

SuggestedRemedy

Replace the less-than sign with left pointing assignment operator arrows (ALT-0220) in Figure 24-8. 21 occurrences.

Proposed Response Response Status W PROPOSED ACCEPT.

I agree. I need help from the chief editor on this.

Dena 2ab Draft 1 0 Commant

CI 24	SC Figure 24-8		-	L 2	# 6
Daines, Kev	vin	World	Wide Packe	ts	
Comment T		Comment Status been changed to 1/	-		
SuggestedF Replace		not equal to symbo	l (ALT-0185)	. One occurrence.	
Proposed R PROPC	esponse DSED ACCEPT.	Response Status	w		
l agree.	I need help from	the chief editor on	this.		
C/ 30	SC	P1	5	L 30	# 7
Daines, Kev	rin	World	Wide Packe	ts	
Comment T Tabs m		Comment Status ion History section.	-		
SuggestedF Add tab	Remedy s for readability.				
Proposed R PROPC	esponse DSED ACCEPT.	Response Status	w		
CI 30	SC 30.11	P3	0	L 4	# 944
Ho-Sook Le	e	ETRI			
Comment T	ype T	Comment Status	D		
in Draft		ect statistics for each M_TX_Frames and OAM traffics.			
SuggestedF	Remedy				
	ommend that OAI statistics of the to	M_TX_FRames and al OAM traffics.	OAM_RX_F	rames be added	as the attributes
Proposed R PROPC	esponse DSED REJECT.	Response Status	W		
		exist. See 30.11.1. may choose which			agement is

Tom Mathey Independent Martin, David Nortel Networks Comment Type E Comment Status D Comment Type T Comment Status D 30.11.1.1.20 aOAMVariableRequestRx is a duplicate of 30.11.1.1.17 aOAMVariableRequestRx Gomment Type T Comment Status D SuggestedRemedy Nuke or replace with intended text. SuggestedRemedy Add an action subsection for "acOAMLoopback". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Mereinset											
Comment Type E Comment Status D 30.11.1.1.20 a0AM/variableRequestRx is a duplicate of 30.11.1.1.17 30AW/variableRequestRx SuggestedRemedy Nuke or replace with intended text. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 30.11.1.1.20 will be removed. C1 30 SC 30.11.1.20 Duplicate subcection tooks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. Proposed Response Response Status W PROPOSED ACCEPT. Comment Status D SuggestedRemedy Notel Networks Comment 17/pe E Comment Status D D Duplicate subsection tooks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. Proposed Response Status W Proposed Response Response Status D Martin, David Nortel Networks Gai SC 30.11.1.2 P36 L15 # [10] Gai SC 30.11.1.2 P36 L15 # [10] Gai SC 30.11.1.2 P36 L15 # [10] Martin, David Nortel Networks D Gai SC 30.11.1.2 P36 L15 # [10] Gai SC 30.11.1.2		11.1.1.20		L 5	# 914			2		-	# 112
Suggested/Remedy Add an action subsection for "acOAMLoopback". Nuke or replace with intended text. PROPOSED ACCEPT IN PRINCIPLE. 30.11.1.1.20 will be removed. P35 Cl 30 SC 30.11.1.1.20 P35 Jantin, David Nortel Networks Comment Type E Comment Status D Duplicate subclause. Suggested/Remedy Missing OAM Variable request. Suggested/Remedy This entire subsection looks like a duplicate of subsection 30.11.1.1.1.17 on the previous page. This duplicate sholubase. PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.2.1 P L Cl 30 SC 30.11.2 P36 L15 # [10] Martin, David Nortel Networks Comment Type T Comment Status D PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.2.1 P L # [10] Comment Type T Comment Status D 2nd paragraph contains a description of the counters within Clause 30. This will in charge drawn would be read restored to subjection of the counters within Clause 30. This will in charge drawn would conterts and reader to subjection of the counters and to be wap-around counter are those that automatically go from their maximum value (or fina are ono continue to	30.11.1.1.20 aOA	MVariableReque	ent Status D	e of 30.11.1.1.17		Missing	OAM Loopbac		Status D		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 30.11.1.1.20 will be removed. Martin, David Nortel Networks Cl 30 SC 30.11.1.1.20 P35 L 518 # 111 Comment Type E Comment Type E Comment Type T Comment Type T Comment Type T Comment Status D See comment #111. See comment Status D Were proposed Response Response Status V PROPOSED ACCEPT. Cl 30 SC 30.11.1.2 P36 L 15 # 111 Cl 30 SC 30.11.1.2 P36 L 15 # 111 See comment #111. Cl 30 SC 30.11.1.2 P 4 L 10 Cl 30 SC 30.11.1.2 P 36 L 15 # 114 10 Martin, David Nortel Networks Comment Type T Comment Type T Comment Type T Comment Status D 2013 SC 30.11.1.2 P36 L 15 # 114 10 2nd paragraph contains a description of the counters within Clause 30. This will ne changed to support 30.5.1.1.1.2, since aPCSCodingViolation will not wrap around. Comment Type T Comment Status D 2nd paragraph contains a description of the counters within Clause 30. This will ne changed	SuggestedRemedy					00		tion for "acOAM	ILoopback".		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 30.11.1.1.20 will be removed. Cl 30 SC 30.11.1.2 P36 L15 # 11 Martin, David Nortel Networks Comment Type E Comment Status D Missing OAM Variable request. SuggestedRemedy This entire subsection looks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. ProPOSED ACCEPT. Cl 30 SC 30.2.1 P L # 10 PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.11.2 P36 L15 # 10 Martin, David Nortel Networks Comment Status D Martin, David Wortel Networks Comment Type T Comment Status D Martin, David Nortel Networks Dalnes, Kevin World Wide Packets SuggestedRemedy Nortel Networks D 2nd paragraph contains a description of the counters within Clause 30. This will nortel nearged to suggested/Remedy Martin, David Nortel Networks D 2nd paragraph contains a description of the counters within Clause 30. This will nortel Networks SuggestedRemedy Add an action subsection for "acOAMEventNotification". PropOSED ACCEPT. Comment Type T	Nuke or replace v	with intended text	i.			Proposed R	Response	Response	Status W		
30.11.1.1.20 will be removed. P35 L 518 # 11 Martin, David Nortel Networks Comment Type T Comment Status D Mustin, David Nortel Networks D Missing OAM Variable request. SuggestedRemedy SuggestedRemedy This entire subsection looks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. Nortel Networks Nortel Networks Proposed Response Response Status W PROPOSED ACCEPT. Comment 111. Cl 30 SC 30.11.1.2 P36 L 15 # 114 Cl 30 SC 30.11.1.2 P36 L 15 # 114 Darles description of the counters within Clause 30. This will n changed to support 30.5.1.1.12, since aPCSCodingViolation will not wrap around. Suggested/Remedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status D Suggested/Remedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status D Suggested/Remedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status D Suggested/Remedy Add an action subsection for "acOAMEventNotification". Proposed Response	, ,	,				•		,			
Martin, David Nortel Networks Comment Type E Comment Status D Duplicate subclause. SuggestedRemedy Add an action subsection for "acOAMVariableRequest". SuggestedRemedy This entire subsection looks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. Proposed Response Response Status W PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.11.1.2 P 36 L 15 # 114 Martin, David Nortel Networks D Danes, Kevin World Wide Packets Comment Type T Comment Status D 2nd paragraph contains a description of the counters within Clause 30. This will me changed to support 30.5.1.1.12, is note a PCSCodingViolation will not wrap around. Martin, David Nortel Networks SuggestedRemedy Comment Type T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Change first three sentences to read as follows: "Most ounters are those that automatically go from their maximum value (or fina zero and countiers are those that automatically go from their maximum value (or fina zero and counters are lobe that automatically go from their nature, around counters are lobe that automatically go from their nature, around counters are lobe that automatically go from their nature, around counters	30.11.1.1.20 will	be removed.						2			# 113
Duplicate subclause. SuggestedRemedy This entire subsection looks like a duplicate of subsection 30.11.1.1.17 on the previous page. This duplicate should be deleted. Proposed Response Response Status W PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.11.1.2 P 36 L15 # 114 Martin, David Nortel Networks D 2nd paragraph contains a description of the counters within Clause 30. This will not knaped to support 30.5.1.1.12, since aPCSCodingViolation will not wrap around. SuggestedRemedy T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Change first three sentences to read as follows: Vhost counters defined in this specification are assumed to be wrap-around counter around counters are those that automatically go from their maximum value (or fine zero and continue to operate. These unsigned counters do not wrap around. Instead, when the their maximum value of their maximum value (or fine zero and continue to operate. These unsigned counters do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters.		11.1.1.20			# 111				Status D		
This entire subsection looks like a duplicate of subsection 30.11.1.1.1.17 on the previous page. This duplicate should be deleted. Proposed Response Response Response Status W PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.11.1.2 P 36 L 15 # 114 Cl 30 SC 30.11.1.2 P 36 L 15 # 114 This sing OAM Event Notification request. World Wide Packets SuggestedRemedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status W Proposed Response Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Response Status W Proposed Response Response Status W Notel Networks			ent Status D			00		tion for "acOAM	1VariableReques	:t".	
PROPOSED ACCEPT. See comment #111. Cl 30 SC 30.11.1.2 P36 L15 # 114 Wartin, David Nortel Networks Comment Type T Comment Status D SuggestedRemedy Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". W Proposed Response Response Status W PROPOSED ACCEPT. Some counters defined in this specification do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters."	This entire subse			ection 30.11.1.1.	17 on the previous		,	,	Status W		
See comment #111. Cl 30 SC 30.11.1.2 P 36 L 15 # 114 Martin, David Nortel Networks 2nd paragraph contains a description of the counters within Clause 30. This will no changed to support 30.5.1.1.12, since aPCSCodingViolation will not wrap around. Comment Type T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status W PROPOSED ACCEPT. W	Proposed Response	Respon	se Status W			C/ 30	SC 30.2.1		Р	L	# 10
See comment #111. Cl 30 SC 30.11.1.2 P36 L15 # 114 Martin, David Nortel Networks Comment Type T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". Change first three sentences to read as follows: Proposed Response Response Status W PROPOSED ACCEPT. W	PROPOSED ACC	CEPT.				Daines, Kev	/in		World Wide Page	ckets	
Cl 30 SC 30.11.1.2 P36 L15 # 114 Martin, David Nortel Networks Comment Type T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". Comment Type T Conters defined in this specification are assumed to be wrap-around counter around counters are those that automatically go from their maximum value (or fina zero and continue to operate. These unsigned counters do not provide for any exp means to return them to their minimum (zero), i.e., reset. Because of their nature, around counters are identified with as nonresettable counters. PROPOSED ACCEPT. Some counters defined in this specification do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters."	See comment #1	11.				Comment 7	<i>уре</i> т	Comment	Status D		
Comment Type T Comment Status D Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Change first three sentences to read as follows: "Most counters defined in this specification are assumed to be wrap-around count around counters are those that automatically go from their maximum value (or fina zero and continue to operate. These unsigned counters do not provide for any exp means to return them to their minimum (zero), i.e., reset. Because of their nature, around counters should be read frequently enough to avoid loss of information. The counters are identified with as nonresettable counters. Some counters defined in this specification do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters."			P36	L15	# 114						
Missing OAM Event Notification request. SuggestedRemedy Add an action subsection for "acOAMEventNotification". Proposed Response Response Status W PROPOSED ACCEPT.	/lartin, David		Nortel Network	ks		Suggested	Remedy				
Proposed Response Response Status W counters are identified with as nonresettable counters. PROPOSED ACCEPT. Some counters defined in this specification do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters."	Missing OAM Eve SuggestedRemedy	ent Notification re	equest.	on".		"Most c around zero an means	counters defined counters are the d continue to o to return them	d in this specific hose that auton operate. These to their minimu	cation are assum natically go from t unsigned counte m (zero), i.e., res	their maximum rs do not provi set. Because o	n value (or final value) to ide for any explicit f their nature, wrap-
Some counters defined in this specification do not wrap around. Instead, when the their maximum value, they stop incrementing. These counters are identified as no around counters."			se Status W								nformation. These
Proposed Response Response Status W	PROPOSED ACC	CEPT.				their ma	aximum value,				
PROPOSED ACCEPT.						•	•		Status W		

C/ 30 SC 30.3.1.1.2	-	L	# 61	C/ 30	SC 30.5.1.1.	12	P 28	L 30	# 9
Marris, Arthur	Cadence Des	ign Foun		Daines, K	Kevin		World Wide F	Packets	
	Comment Status D g for copper uses CRS defen xcessiveDeferral. The conten per PHY				<i>t Type</i> T ment rate is miss edRemedy	Comment s ing. However, t		es not rollover. N	leed to address.
SuggestedRemedy Change last sentence of	f subclause 30.3.1.1.20 to re ribute are undefined for MAC		ting in full duplex mode	"Gen 000 (wrap		o-around counte cond for 100 M	er. This counte b/s implement ts maximum v	tations. However,	n increment rate of 100 this counter does not
Proposed Response PROPOSED ACCEPT.	Response Status W			PRO	POSED ACCEPT		Ξ.		
C/ 30 SC 30.3.2.1.2 (impe, Marc	P 23 ADTRAN	L 24	# 30	wide	data path which r	esults in 25 mil	lion nibbles pe	er second.	PHYs use MII's nibble n 100 Mb/s to 1000
Comment Type E	Comment Status D				some clarification				
draft should be consiste 2BASE-TL is not. The s	vritten includes some of the o ent and list either no options ame comment applies to 24 line 3 with the same reme	or all options. 2		1000	Mb/s implementa	ations." since G	MII octet-wide	data path is use	
SuggestedRemedy Add "2BASE-TBDD Cla	use 61 TBD D"			C/ 30 Martin, Da			P 28 Nortel Netwo	L 33 rks	# 110
Proposed Response PROPOSED ACCEPT.	Response Status W			Commen Missi	<i>t Type</i> T ing 2 and 10 Mb/s	Comment s s cases.	Status D		
THOI OULD AOUEF I.				Suggeste	edRemedy				
					2 and 10 Mb/s ca per of times…For				

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE.

Is this to cover EFM Cu rates?

Response Status W

CI 30 SC	30.5.1.1.12	P 28	L 34	# 8	C/ 36	SC 36.1.	2	P 962	L	# 490
Daines, Kevin		World Wide Pa	ckets		Dawe, Pier	S		Agilent		
Comment Type Behaviour mi	-	Comment Status D				Objectives s	ays:	of 1000BASE-X:		
SuggestedReme						biowing are		OF TOOODAGE-A.		
received, oth	s operation it er than the /H	is a count of the number o // code-group. For 1000 Mb	s operation it i	a count of the number	, 		ninal network (3000 m (usin	extent of up to 3 kr g fiber);	n, including	
all ones, it sto		oup is received, other than ting."	the /v/ code-gi	oup. when it reaches	Suggested	Remedy				
Proposed Responer	nse l	Response Status W			Sort ou reach"	ut the range.) implication	20 km if PON s with these di	l uses clause 36, 1 stances?	0 if not. Are the	re any delay ("logical
PROPOSED	ACCEPT.				Proposed I	,	,	nse Status W		
C/ 30 SC	30.5.1.1.2	P 25	L 25	# 31	PROP	OSED ACCE	EPT IN PRINC	IPLE.		
Kimpe, Marc Comment Type	E	ADTRAN Comment Status D						associated with lir		media types would be a MD is added.
51		are copper PHYS listed in	clause 63 that	are not listed here		-	-			
SuggestedReme						nly, PMD spe nd 39.1 for ii		on is contained in t	he respective Pl	MD clauses. See Table
	Voice Grade	UTP PHY C as specified in UTP PHY D as specified in						36.1.2 bullets (e)		
Proposed Respo		Response Status W			C/ 36 Daines, Ke	SC 36.2.	4.19	P 40 World Wide F	L16	# 11
PROPOSED					,				ackets	
C/ 36 SC	36	P 39	L 36	# 13	Comment Counte	51		<i>nent Status</i> D fied. Intentional err	ors should not b	e counted.
Daines, Kevin		World Wide Pa	ckets		Suggested	Remedy				
Comment Type Tabs missing		Comment Status D History section.			Chang "When	e:		node, coding_viola	tion_counter cou	unts once for each
SuggestedRemed Add tabs for					to read			node, coding_viola	tion counter co	ints ance for each
Proposed Responer		Response Status W			invalid	code-group	received. The		Error_Propagat	ion ordered_set (/V/) is
	-				Proposed I	Response OSED ACCI	,	nse Status W		

C/ 36 SC 36.2.5.1.3 P40 L23 # 12 C/ 36 SC 36.3.9 P41 L4 # 333 World Wide Packets Daines. Kevin Brown, Benjamin AMCC Comment Type T Comment Status D Comment Type Е Comment Status D Register is incorrectly named. misspelling SuggestedRemedy SuggestedRemedy Change "MDIO register bit 0.1" to "Control register bit 0.1" Replace "equalt" with "equal" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. This text came from an attempt to borrow text from 49.2.14.1. However, to borrow this See comment #14. appropriately, the word "bit" should be removed. SC 36.3.9 C/ 36 P41 L4 # 332 C/ 36 P66 L26 SC 36.2.5.1.3 # 182 Brown, Benjamin AMCC Squire. Matt Hatteras Networks Comment Type Comment Status D т Comment Type E Comment Status D What should the COM_DET assert limit be when PMA_TX_CLK is not equal to twice the PMA_RX_CLK frequency? Echo earlier comment: oam enable seems misleading SuggestedRemedy SuggestedRemedy Shouldn't it be the same value? "Unidirectional OAM enable" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Need help here from Vipul Bhatt/Optics STF. C/ 36 SC 36.3.9 P41 L4 # 14 Daines, Kevin World Wide Packets C/ 43B SC 43B.2 P424 L28 # 564 Comment Type Ε Comment Status D Dawe. Piers Agilent Spelling. Comment Type E Comment Status D SuggestedRemedy I wasn't quite sure what "per link" means in a PON scenario. I guess you mean per outstation; thus the head end connected to 16 outstations could handle up to 1600 Change "equalt" to "equal". frames/s. Also it's not clear if "maximum length frames" means the recommended Proposed Response Response Status W maximum, 128 octets, as above, or the hard maximum ~1500 octets. PROPOSED ACCEPT. SugaestedRemedv Please clarify. P41 C/ 36 SC 36.3.9 14 # 863 Proposed Response Response Status W Thatcher, Jonathan World Wide Packets PROPOSED ACCEPT IN PRINCIPLE. Comment Type E Comment Status D Spelling error: "equalt" As Piers points out, OAM would result in a maximum of 10 frames per ONU. The maximum length OAMPDU is 1518 octets. SuggestedRemedy Remove T These clarifications will be added. Proposed Response Response Status W PROPOSED ACCEPT.

P802.3ah Draft 1.0 Comments

See comment #14.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 7 of 190 C/ **43B** SC **43B.2**

C/ 43B	SC 43B.2	P 555	L 47	# 183
Squire, Ma	att	Hatteras Net	works	
Comment	Туре Е	Comment Status D		
Says t OAM.	the slow protocol	s specified in 43 conform to t	his recommenda	tion. Doesn't mention
Suggestee	dRemedy			
The L		protocols defined in Clause OAM protocol may generate		
•	Response POSED ACCEPT	Response Status W		
C/ 55	SC 1.6.3	P 76	L 50	# 146
Kramer, G	ilen	Teknovus		
Comment	Туре Т	Comment Status D		
of data that th	a flow control (ex ney ultimately cor	nted as a tool to monitor and : loopback). As such, OAM F itrol. evice is placed in a loopback	PDUs should not	use the same data path
		But client may also contain		

blocked (see Fig 55-3). But client may also contain OAM PDUs that use the same data path. These OAM PDUs should be transmitted even in the loopback mode. It is not clear how MAC Client will know that said OAM PDUs can be transmitted, but that some regular data frames cannot.

SuggestedRemedy

A logical way to implement OAM is to not use MA_DATA path. OAM PDUs should have a separate Ethertype (OAM Control) and use MA_OAM.reguest and MA_OAM.indication primitives.

The advatages of having a separate MA_OAM primitives are

(1) OAM-capable devices still can support PAUSE operation

(2) Will not subject OAM traffic to any rate limit

(3) Avoids problems with OAM PDUs blocked behind data frames in the MAC Client.(4) Will send a positive message to the customers saying that 802.3ah recognizes the importance of OAM in the access environment (enough so that we dedicate a new Ethertype to it)

Proposed Response Response Status W

PROPOSED REJECT.

OAMPDUs do not originate in the MAC Client sublayer. Rather, they originate in Management (STA). Since that misconception was the crux of the issue, the OAM Editor feels the "advantages" listed in the Suggested Remedy are not applicable.

C/ 55	SC 4.2	P 79	L 39	#	148
Kramer, Gler	า	Teknovi	JS		

Comment Type TR Comment Status D

There are the following problems with using loopback in P2MP:

(1) In ONU, data frames may need to be buffered in the OAM sublayer until the timeslot arrives. The buffer may need to be very large. Also this buffer will be used only during loopback. At all other times it will remain empty.

(2) REPORT message is generated by ONU's MAC Control Client based on queue size in ONU's MAC Client. MAC Control Client doesn't see the buffer inside OAM layer, therefore the REPORT message cannot include the size of OAM buffer

(3) If MAC Client contains some OAM PDUs, they should be sent even if the device is in loopback mode. There is no way for the scheduler in the OLT to know how large a slot to give to an ONU, as the REPORT message cannot report size of OAM PDUs separately from the rest of data frames.

SuggestedRemedy

Actual loop back of data frames should be done in MAC Client. Upon receiving Loobpack Control frame, the OAM sublayer will indicate to MAC Client that it should loop back. MAC Client already has Tx queue and Rx queue, so loop back is straightforward.

This method also solves all issues with P2MP. The size of the Tx queue is reported by the REPORT message. The only difference is that in the loopback mode, the Tx queue is populated by the frames from the Rx queue.

This method will allow lossless loopback and will not require large buffer in OAM sublayer.

Thus, for MPCP there will be no difference whether remote device is in a loopback mode or not. The correct state of the Tx queue will be reported to the OLT every time.

Several supporting slides will be submitted to the OAM STF chair.

Proposed Response Response Status W

PROPOSED REJECT.

IEEE P802.3ah does not define the MAC Client. It simply is outside the domain of our WG. That said, the OAM Editor wished to respond to a couple of points:

First, related to your comment, point #3 "If MAC Client contains some OAMPDUs" - this can't happen. OAMPDUs do not originate in the MAC Client. Instead Management (STA) originates most all OAMPDUs. The only exception being the Information OAMPDU sent at the minimum rate.

Second, lossless loopback isn't a goal or requirement of OAM loopback. Frames will be lost due to bit errors. OAM loopback will be intiated to test such faulty links. It is intended that Management, after exiting OAM loopback, will query local and remote attributes to determine the symbol and frame errors and in which direction they occurred.

Perhaps, what is better is to discuss a "frame discard due to buffer overflow when in

TYPE: TR/technical required T/technical E/editorial	COMMENT STATUS: D/dispatched A/accepted R/rejected	SORT ORDER: Clause, Page, Line, Subclause	Page 8 of 7	190
RESPONSE STATUS: O/open W/written C/closed	U/unsatisfied Z/withdrawn		C/ 55	SC 4.2

loopback" which may provide the needed information, both for P2MP and P2P links. Has the commenter considered this approach to the problem?

CI 55	SC	4.2	P 7	9	L 45	# 147
Kramer, Gl	en		Tekno	ovus		
Comment 7	Туре	т	Comment Status	D		
Data fr matter	ames o whethe	originate in er they were	MAC Client sublaye e loopbacked or not	er, and shoul t.	d be sunk in	sunk in OAM layer. the same sublayer no
frames	to unc	lerstand wh	AC Client may nee ich frames were los pbacked frames.			of all looped-back be flexible enough to
Suggested	Remed	ły				
			l Figure 55-3 to sho h MA_DATA.indica		opbacked fra	ames are passed to
Proposed F PROP	•	nse REJECT.	Response Status	W		
			lefined a requireme Refer to squire_2_0			k frames from being
CI 55		5.6.3.2	P9	5	L1718	# 109
Martin, Dav	/id		Norte	I Networks		
Comment 7	Туре	т	Comment Status	D		
Need to	o broa	den the sco	pe of the events re	ferenced.		
Suggested	Remea	ły				
			ote device of link-re OAM events define		events define	d in 55.2.2." to "to alert
Proposed F PROP	•	nse ACCEPT.	Response Status	w		
C/ 55	SC	55	P 7	3	L 23	# 15
Daines, Ke	vin		World	Wide Packe	ets	
Comment T	Туре	Е	Comment Status	D		
	nissing	in Revisior	History section.			
Tabs m						
Suggested		<i>ly</i> eadability.				

C/ 55	SC 5	5.1.1	P 74	L1619	#	334	
Brown, Benja	min		AMCC				
Comment Typ	be	Е	Comment Status D				
T I (*	~		e a la l				

The first 2 sentences of the third paragraph are a repeat of information fount in the first 2 paragraphs.

SuggestedRemedy

Remove the first 2 sentences of the third paragraph.

Proposed Response	Response Status	W	
PROPOSED ACCEPT.			

CI 55	SC 55.1.1	P 74	L 5	#	69
Martin, David		Nortel Networks			

Comment Type T Comment Status D

Line 5 says "This clause defines an optional Operations,". The wording "optional OAM" is also used on page 75 line 22, page 75 line 33, page 76 line 1. Finally on page 76 lines 39-41 it is stated that "Implementation of OAM functionality is mandatory for subscriber access devices defined in Clauses..." I'm concerned that after reading four times that OAM is optional, someone might not read any further and miss that it is actually mandatory for some PHYs.

SuggestedRemedy

Suggest changing p.74 line 5 "This clause defines an optional Operations," to "This clause defines the Operations," and then copy and paste p.76 lines 39-41 to follow p.74 line 9. Then at least the context has been set early, so that when reading the wording "optional OAM" afterwards it should be clear there are exceptions.

Proposed Response	Response Status	w	
PROPOSED ACCEPT.			

CI 55	SC 55.1.1	P 74	L 5	# 943	
Richard Bra	nd	Nortel Networks			
Comment T	vpe T	Comment Status D			

Delete the words "an optional" in this line.

SuggestedRemedy

replace with the then add the following sentence to the paragraph at the end of line 9 (p. 74): "OAM is intended as an option for IEEE 802.3 physical layer devices, however implementation of OAM functionality is mandatory for subscriber access devices defined in Clauses 58, 59, 62 and 63.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See comment #69.

			: 002.0011 D					
C/ 55 SC 55.1.2 Romascanu, Dan	P 74 Avaya Inc.	L 24	# 157	C/ 55 Martin, Da	SC 55.1.3 avid	P 74 Nortel Network	L 47 Is	# 70
Comment Type E Text in lines 24 and 26	Comment Status D is redundant and confusing			<i>Comment</i> Wordi	<i>Type</i> E ing clarification.	Comment Status D		
SuggestedRemedy delete text in line 26					ge "to support a f	rame-level loopback mode." to	"to support a c	data link layer frame-
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed	loopback mode." <i>Response</i> POSED ACCEPT	Response Status W		
C/ 55 SC 55.1.3 Daines, Kevin	P 74 World Wide Pae	L 33 ckets	# 16	Cl 55 Romascai	SC 55.1.3 nu, Dan	P 74 Avaya Inc.	L 48	# 158
Comment Type E Introductory sentence c	Comment Status D could be stated more simply.			Comment	Туре Е	Comment Status D	back'	
SuggestedRemedy Change				Suggeste		с .	back	
	additional details on the functio objectives is clarified with a nun tions are also detailed."			Proposed	Response	Response Status W		
to:				C/ 55 Veerayah	SC 55.1.3.a.	2 P 74 ICR	L 39	# 23
"This section provide a	dditional details and functional	requirements f	or the OAM objectives."	-		-		
Proposed Response PROPOSED ACCEPT.	Response Status W				erm "unidirection	Comment Status D al" is introduced here without b	eing defined, o	r having any reference
	074			Suggeste	-			
C/ 55 SC 55.1.3 Brown, Benjamin	Р 74 АМСС	L 34	# 335	have	the unidireationa	access physical layer devices support, which is the capabilit . Hence, OAM remote fault in	y to send OAM	PDU while the receive
Comment Type E The second sentence c	Comment Status D of the first paragraph doesn't ad	d anything		condi				
SuggestedRemedy				OR				
Remove the second se	ntence of the first paragraph					access physical layer devices		
Proposed Response PROPOSED ACCEPT	Response Status W			condi	tions (See Tables	ional operation to allow OAM re s 55-6 and 55-10)."	emote fault indi	cation during fault
				,	Response	Response Status W		
See comment #16.				PROF	POSED ACCEPT	IN PRINCIPLE.		
				Slight	preference for 2	nd suggested remedy.		

C/ 55 SC 55.1.5	P 75	L	# 596	Cl 55	SC 55.1.5	P 76	L13	# 71
Shin, Yoshida	Sumitomo El	lectric		Martin, Da	vid	Nortel Netwo	rks	
Comment Type T	Comment Status D			Comment	Type E	Comment Status D		
	s difficult to assign bandwidth t		Us and OAM loopback	Is it ju	st me or does thi	is paragraph say the same th	ing 3 times?	
uggestedRemedy I would like to propo - OAM Client		e which introduc	res	systen to be s sublay sublay Proposed	ge "It is possible in while not imple subject to OAM. ver for every port ver for some port	to implement the optional OA ementing it for other ports; it is A conformant implementation ." to "A conformant implement is within a system while not in <i>Response Status</i> W	s not necessary n is not required ntation may imple	for all ports in a syster to implement the OAM ement the optional OA
PROPOSED REJEC	CT. se to comment #148.				Editor guilty of pl our reduction.	agarizing Link Ag 43.1.3. :)		
C/ 55 SC 55.1.5 Brown, Benjamin	P 76 AMCC	L13	# 336	Cl 55 Veerayah,		Р 76 ICR	L 2	# 24
Comment Type E These 3 sentences/	Comment Status D phrases all say the same thing.			Comment typo	Туре Е	Comment Status D		
SuggestedRemedy Recommend removing the second sentence of this paragraph. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			"be su Proposed	bject to OAM" to bjected to OAM'	Response Status W			
See comment #71.				<i>Cl</i> 55 Veerayah,	SC 55.1.5 Kumaran	Р 76 ICR	L 6	# 25
				Comment Abrup	51	Comment Status D ence, and diagram.		
						5.5, where it fits, and remove am in 55.5.	the sentence, c	r sentence can make
				Proposed PROP	Response OSED REJECT	Response Status W		

C/ 55	SC 55.1.6.1	P 76	L38	# 337
Brown, Ber	njamin	AMCC		

Comment Type T Comment Status D

What does this paragraph mean? Does it mean that Clause 58, 59, 60 & 61 PHYs must support OAM to be considered compliant but that systems using these PHYs don't have to turn OAM on? Or does it mean that systems using these PHYs must turn OAM on?

The only OAM support these PHYs are capable of is unidirectional transmit. All other OAM functions are above the MAC layer so well above these PHYs. Is this what we're talking about?

SuggestedRemedy

Please clarify what the intention here is. If I understood it, I'd offer some actual text. Explain it to me and I'll help wordsmith with you!

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

I believe the following are important to communicate:

1) OAM may be applied to (most) 802.3 PHYs. One exception is 10BASE-2, for instance. There are likely others which are close to obsolete. Perhaps this needs to be clarified. OAM isn't restricted to full-duplex. It may be used on half-duplex P2P links. It won't work on half-duplex shared medium networks (little DA problem).

2) As OAM is associated with the EFM TF, subscriber access networks, specifically those using the new EFM PHYs must implement OAM in order to be compliant.

3) Devices using non-EFM PHYs may or may not implement OAM to be compliant.

P76

/ 40

4) O	AM does	not need	to be	enabled.
------	---------	----------	-------	----------

C/ 55 SC 55.1.6.1

Nortel Networks

#	102

Comment Type T Comment Status D

Should add 100BASE to list.

SuggestedRemedy

Martin. David

Change "defined in Clauses 58, 59, 62 and 63" to" defined in Clauses 58, 59, 60, 62 and 63".

Proposed Response Response Status W PROPOSED ACCEPT.

Whoops!

C/ 55	SC 55.1.6.3	P 76	L 50	#	622	
Healey, Adar	n	Agere Systems				

Comment Type TR Comment Status D

MAC control PAUSE is required by multiple P2P fiber applications. These applications would also benefit from OAM, but the recommendation in 55.1.6.3 discourages the coexistance of these functions. It was shown in song_oam_1_0902.pdf that links that use MAC control PAUSE may also support OAM with modest changes to Figure 31B-1.

SuggestedRemedy

Modify Figure 31B-1 as recommended in song_oam_1_0902.pdf.

Remove subclause 55.1.6.3.

Proposed Response Response Status W PROPOSED REJECT.

The OAM STF and EFM TF have maintained backward compatibility as a key requirement for OAM functionality. One of the motivating factors for "OAM in frames" as it was known previously was backward compatibility. As such, OAM has been patterned after Link Aggregation with the goal of having as much functionality as possible implementable in 802.3 standard devices via software/firmware. Care is being given to ensure that an implementer may choose alternate methods of implementations.

C/ 55	SC 55.1.6.3	P 76	L 52	#	163	
Seto, Koich	iro	Hitachi Cable				

Comment Type TR Comment Status D

'Not recommending the use of OAM with Pause' is ambiguous and misleading. Disallowing the use of Pause operation with OAM is disservice to the users who rely on Pause for reliable packet-loss-less operation. However, if OAM in frame cannot fullfil the requirements and functionalities of OAM when used with Pause, the spec should accept the shortcoming and state the fact clearly.

SuggestedRemedy

1) The spec should either

- diallow the use of Pause at all by changing the word 'not recommended' to 'prohibited' - place OAM sublayer parallel to MAC control and allow the use of OAM with Pause 2) The fact the OAM in frame would interfere the existing Ethernet operations such as Pause was not discussed when 802.3ah decided to use OAM in Frame over OAM in Preamble. Should we know this fact, many participants may have had a different opinion. Considering the shortcoming, we should consider the addition of OAM method that does not impose such a shortcoming.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

The OAM Editor feels the Comment and Suggested Remedy have slighty different meanings. As such, the OAM Editor will interpret the two and offer a remedy as follows:

"Add text in 55.1.6.3 stating the limitations and shortcomings of have both PAUSE and OAM active at the same time."

Response to Suggested Remedies:

1) In two separate discussions (July 02 in Vancouver and Sept 02 in New Orleans) the OAM STF has agreed with the intent of 55.1.6.3.

Moving the OAM sublayer parallel to the MAC Control would violate the backwards compatible goal of OAM.

2) 'OAM in frame' has since at least Sept 2001 been intended to be implemented via Slow Protocols. The origination of Slow Protocol frames above the MAC Control sublaver was thought to be well-understood. Somce of the earlier work by Denny Gentry explored extensions to the MAC Control sublayer but these were abandoned as the issue of backward compatibility arose en masse. Certainly proponents of alternate OAM transport schemes had the opportunity to raise concerns about PAUSE operation.

Additional, PAUSE related commentary:

The OAM sub-Task Force feels this is a low risk issue since PAUSE frames are used very infrequently. PAUSE frames are intended for short-term congestion of input buffered switches taking data from the edge of a network. Over time, network designers have learned that input buffered switches have their own set of problems and output buffered switches using algorithms such as RED are much more robust. Also, pausing toward the center of the network, in a network full of input buffered switches, can result in the pause propagating

throughout the network. This has the effect of a single edge device stalling the entire network just because it can't handle the amount of data destined to it. For these and other reasons.PAUSE frames have typically fallen out of favor and are not used very frequently anumara

<i>Cl</i> 55 SC 55.2.1 Martin, David	P 7 7 Nortel	v Networks	L 27	# 72
Comment Type E Font.	Comment Status			
SuggestedRemedy The text "An unrecoverab font than the rest of the do			curred." app	ears to be in a smaller
Proposed Response PROPOSED ACCEPT.	Response Status	W		
C/ 55 SC 55.2.1	P 7 7	7	L 27	# 18
Daines, Kevin	World	Wide Pack	ets	
Comment Type E Font size is 9 pt rather that	<i>Comment Status</i> an 10 pt.	D		
SuggestedRemedy Bump font size.				
Proposed Response PROPOSED ACCEPT.	Response Status	W		
C/ 55 SC 55.2.2	P 7	7	L33	# 73
Martin, David	Nortel	Networks		
Comment Type E Wording change.	Comment Status	D		
SuggestedRemedy Change the title from "OA	M event description	ns" to "Ever	t Indication of	description".
Proposed Response PROPOSED ACCEPT.	Response Status	W		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ 55 SC 55.2.2 Martin, David	P 77 Nortel Network	L 35 (S	# 74	C/ 55 SC 55.2.2 Murakami, Ken	P 78 Mitsubishi E	L1 lectric Cor	# 591
Event Indication flag."	Comment Status D ed OAM events." to "lists the o	lefined OAM ev	ents which trigger the		symbol period		dow in the following
Proposed Response PROPOSED ACCEPT.	Response Status W			- Severely errored	rame period	s not clear.	
SuggestedRemedy Proposed Response PROPOSED ACCEPT	P77 ETRI Comment Status D e the purpose and the usage Response Status W IN PRINCIPLE.			 2)The actual error(s) corresponding to each event is not clear. SuggestedRemedy Need to clarify how to decide the values of threshold and timed window. And, if their values are constant, the fixed values should be indicated. 2)Need to clarify the actual error(s) corresponding to each event. For example, Code violation corresponds to Preamble CRC error corresponds to FCS error corresponds to FCS error corresponds to Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment #86.			
				Cl 55 SC 55.2.3 Martin, David Comment Type E Wording change. SuggestedRemedy Change the title from Proposed Response PROPOSED ACCE	Nortel Netwo Comment Status D n "OAM event procedure" to "E Response Status W		# 7 <u>5</u>

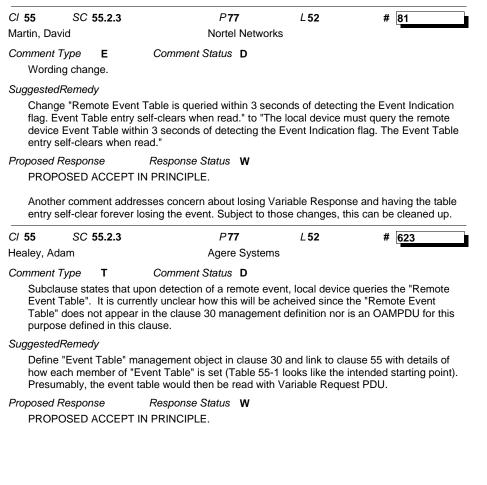
C/ 55 SC 55.2.3 P77 L40 # 6	82 C/ 55 SC 55.2.3 P77 L40 # 338
Ueda, Iori Matsushita Communic	Brown, Benjamin AMCC
Comment Type T Comment Status D The procedure of local event sending/receiving is not clear. Add the processing procedure performed while the local event continues.	Comment Type T Comment Status D Bullet a) What is the Event Table? I don't see this defined anywhere in the clause. SuggestedRemedy
Add the processing procedure performed when a local event is cleared. Also add the flow chart.	Add a description of the Event Table.
SuggestedRemedy	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	The Event Table, being first proposed in New Orleans, needs lots of work.
Will have OAM STF consider flow chart.	C/ 55 SC 55.2.3 P77 L 4054 # 26 Veerayah, Kumaran ICR
CI 55 SC 55.2.3 P77 L 40 # 1 Squire, Matt Hatteras Networks	84 Comment Type TR Comment Status D With the self-cleared event table, there are few limitations:
Comment Type T Comment Status D We say "Event Indication flag bit is sent." If there is no PDU, this cannot happer part of a frame. I think this step is unnecessary, and instead when we transmit a set the bit to 0/1 based upon whether the Event Table is empty. SuggestedRemedy Remove the line saying "Event Indication flag bit is set." Then, on page 74 line 5 the meaning of Event indication in the table to 1 = Event table is not empty	a PDU we or how many events are in the event table SuggestedRemedy Since the event table already has timestamp as an entity in each entry, retrieval of events can be based on it. The local device maintains a timestamp for its last event. The remote device on the other hand maintains a record of timestamps corresponding to the devices.
0 = Event table is not empty 0 = Event table is empty Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Upon receipt of event notification, remote device can query the last timestamp, followed by retrieval of all events occured (or registered) between the 2 timestamps (remote's and local's). With this, there is no need for self-clearance of event table, and loss of event information is minimized. Retrieval of information for the same event will not be an issue too.
Table 55-2 will be amended per suggested remedy.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 55 SC 55.2.3 P77 L 40 # 6 Ueda, Iori Matsushita Communic	See related comments #184, 687 688.
Comment Type T Comment Status D Event Table and Remote Event Table need to be define.	OAM STF will address in Kauai.
SuggestedRemedy define Event Table.	
Proposed Response Response Status W PROPOSED ACCEPT.	

Page 15 of 190 C/ 55 SC 55.2.3

C/ 55 SC 55.2.3 Romascanu, Dan	P 77 Avaya Inc.	L 41	# 159	C/ 55 Squire, Ma	SC 55.2.3 tt	н	P 77 atteras Netw	L 42 orks	# 186
Comment Type E Event Table seems to differently	Comment Status D refer to table 55-1. However, thi	s is not clear,	and table 55-1 is called		nally, an Evnet	Comment Sta Notification OAMF		sent" seems rec	lundant (optionally, may).
SuggestedRemedy - refer to table 55-1 in	linwe 41			Suggested Remot	Remedy e "optionally."				
- change name of table	e 55-1 to 'Event Table'			Proposed I PROP	Response OSED ACCEP1	Response Sta	tus W		
Proposed Response PROPOSED ACCEPT	Response Status W			C/ 55	SC 55.2.3		P 77	L 42	# 77
C/ 55 SC 55.2.3	P 77	L 41	# 687	Martin, Dav	vid	N	ortel Network	KS	
Arnold, Brian	Cisco Systems			Comment	Туре Е	Comment Sta	atus D		
Comment Type T	Comment Status D			Anal w	ording change.				
instance, what is the s Discovery? Must the s overrun with events th dropped or cleared fro	ing Events and the Event Table ize and structure of the Event Ta size be the same on both sides? at have not yet aged out? Is the m the Event Table? Presuming Event Tables (via event entry or	able? Is the si What happer re some indic both sides ha	ze negotiable via OAM ns if the Event Table is ation of an event being ve write access to their	Proposed I	e "Event Indica	tion flag bit set." to Response Sta Γ.		Indication flag b	bit is set."
	nechanism to prevent race cond			C/ 55	SC 55.2.3		P 77	L 43	# 688
SuggestedRemedy				Arnold, Bria	an	C	isco Systems	6	
mechanism. Request friendly, and keeps OA	the group to specify more detail to keep solution as simple as po MPDU traffic to a minimum.			more V	ptional Event No /ariable Contair	ners that includes	U is sent by the same or i	more informatio	
Proposed Response PROPOSED ACCEPT	Response Status W			query t	the local Event				hat the remote side o allow the local Event
Agree, some committe New Orleans.	e time is warranted to review Ev	ent Table sind	ce it was only added in						the Event Table if the available, and if it is not
C/ 55 SC 55.2.3 Martin, David	P 77 Nortel Networks	L 41	# 76	crucial		ting information a			al motivations for the
Comment Type E	Comment Status D			Suggested	-				
Anal wording change. SuggestedRemedy				Suggest that the group evaluate the benefits of our current Event mechan complexity and either reaffirm that this is the model we really want or com something less complex that still meets our primary requirements of remo indication, loopback, and link monitoring.				r come up with	
Change "First, the eve				Proposed I		Response Sta			
Proposed Response PROPOSED ACCEPT	Response Status W			,	,	T IN PRINCIPLE.			
				related	issues/questio		pardon the pu		liscuss Event Table TF doesn't finish, this

C/ 55 SC 55.2.3 P77 L 46 # 78 Martin, David Nortel Networks	C/ 55 SC 55.2.3 P77 L 50 # 187 Squire, Matt Hatteras Networks
Comment Type E Comment Status D Really anal wording change.	Comment Type TR Comment Status D Procedures for remote events confuse me.
SuggestedRemedy	SuggestedRemedy
Change "Event self-clears from Event Table" to "The event self-clears from the Event Table".	New procedures:
Proposed Response Response Status W PROPOSED ACCEPT.	a) The local device sets the variable XXsomethingXX to the value of the Event Indicator flag in every received PDU.
CI 55 SC 55.2.3 P77 L48 # 79 Martin, David Nortel Networks	b) Whenever the variable XXsomethingXX is set, the local device should query the remote device for the value of its event table (via a Variable Request OAMPDU) at least every 3 seconds.
Comment Type E Comment Status D	Question: How do we address "many" events happening? Limit the size of the PDU?
Wording change. SuggestedRemedy	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Change "when a remote event is detected:" to "when an OAMPDU is received with the Event Indication flag active:"	See comments #687, 688. OAM STF meeting time is warranted.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 55 SC 55.2.3 P77 L 50 # 80 Martin, David Nortel Networks
CI 55 SC 55.2.3 P77 L 49 # 185 Squire, Matt Hatteras Networks 185	Comment Type E Comment Status D Wording clarification.
Comment Type E Comment Status D	SuggestedRemedy
Bullet (a) confusing in that it looks like the remote event is stored in the local event table. SuggestedRemedy Change "reflects the state that Event Table has at least one Event" to "reflects the state that the remote Event Table has at least one Event." Proposed Response Response Status W	Change "First, the remote event is detected by sensing the Event Indication flag bit set. Event Indication reflects the state that Event Table has at least one Event." to "A remote event is detected by sensing an active Event Indication flag in a received OAMPDU. The active Event Indication flag reflects that the corresponding Event Table has at least one active event." Proposed Response Response Status W
PROPOSED ACCEPT.	PROPOSED ACCEPT.
	C/ 55 SC 55.2.3 P77 L 50 # 686 Arnold, Brian Cisco Systems Cisco Sy
	Comment Type E Comment Status D
	A commenter referencing 55.2.3.a (for instance) without referencing the line number will be making an ambiguous reference due to two instances of a-c under 55.2.3.
	SuggestedRemedy Re-label a), b), and c) on lines 50, 52, and 54, as e), f), and g), respectively.
	Proposed Response Response Status W PROPOSED ACCEPT.

Page 17 of 190 C/ 55 SC 55.2.3



C/ 55	SC 55.2.3	P 77	L 53	# 339
Brown, Benja	ımin	AMCC		

Comment Type T Comment Status D

Bullet b) What happens if the "Variable Response" is lost? Is the event lost for good?

Also, shouldn't the "event" bit be clear in this Variable Response so the local device doesn't think there's yet another event to read from the table?

SuggestedRemedy

Describe the effects of these conditions.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Per comment #184, definition of Event Indication has changed. That said, your example of a lost Variable Response is a good one. Since the table self-clears when the Variable Response is sent by Management, is the event lost forever when the OAMPDU incurs a frame error and is dropped?

Two choices. Either accept this behavior or add an acknowledgement mechanism which would serve to clear events. This has its own set of synchronization, event tracking issues. Needs more work.

C/ 55	SC 55.2.3	P 77	L 54	# 82
Martin, Da	avid	Nortel Networks		
Comment	51	Comment Status D		
Word	ing change.			

SuggestedRemedy

Change "Queries are repeated as long as Event Indication flag is set." to "The local device queries the remote device Event Table as long as the received Event Indication flag is set."

Proposed Response PROPOSED ACCEPT.		Response Status	W		
C/ 55	SC 55.2.3	P 78		L1	# 83
Martin, Da	avid	Nortel	Networks	5	
	t <i>Type</i> E ing change.	Comment Status	D		
<i>Suggeste</i> Chan		Events" to "Event Indi	cation Fla	ag Triggers".	
'	Response POSED ACCEPT	Response Status	w		

			P802.3ah L	Draft 1.0 Comments			
C/ 55 SC 55.2.3 Martin, David	P78 Nortel Networks	L11	# 86	C/ 55 SC 55.2.3 Arnold, Brian	P 78 Cisco Systems	L 22	# 690
Comment Type T Comment Status D Wording change and proposal for period and threshold values. SuggestedRemedy Change "Errored frame period" to "Errored frame second". Change "Defined threshold and timer. If non-zero and below threshold in timed errored." to "An Errored Frame Second is defined as a 1 second interval with I errored frames for a Y rate Ethernet link. Where X=128 for Y=1000BASE; X=1 Y=100BASE, X=1 for Y=10BASE". See attached spreadsheet for arithmetic. V discuss 1 sec period versus 3 sec query period. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response			val with less than X SE; X=13 for	correct meaning, but th this "PHY PMI Aggrega 55-1 is referring to the SuggestedRemedy Purely at the discretion	Comment Status D e "PHY-aggregated loops" is te the copper track seems to have a ation" in 61.2.2 among other pla copper PHY PMI Aggregation, the of the editor, the references to consistent with the new nomencla <i>Response Status</i> W	altered their no ces. If the "Lo this text could "PHY loop ag	omenclature by calling oop Fault" row in Table be similarly altered. ggregation" in Clause 55
	emedy is accepted as is. Howe	ever, the last se	entence mentions a	C/ 55 SC 55.2.3 Squire, Matt	P 78 Hatteras Netwo	L 24 rks	# 190
C/ 55 SC 55.2.3	P 78	L14	# 87	Comment Type E	Comment Status D		
Martin, David	Nortel Networks		<i>π</i> 01		not detected by OAM PDUs.	Only signaled	by PDUs.
SuggestedRemedy Change "Severely errore Change "Defined thresh errored." to "A Severely more errored frames for	Response Status W	errored frame se hold in timed wir ned as a 1 seco X=128 for Y=10	ndow, severely ond interval with X or 000BASE; X=13 for	at least one of the loop	nggregation as described in XX s within that aggregated set is f hin an Event Notification PDU o Response Status W	ailed. The sp	ecific loop(s) that failed
Most of the suggested re need to discuss window	emedy is accepted as is. Howe vs. query intervals.	ever, the last se	entence mentions a				
C/ 55 SC 55.2.3 Squire, Matt	P 78 Hatteras Netwo	L 17 rks	# 189				
Comment Type T	Comment Status D						
Not a fan of power/temp just as easily be covered	erature alarms. These seem of in vendor specific.	outside the scop	be of 802.3 and can				
SuggestedRemedy Remove power/tempera	ture.						
Proposed Response PROPOSED ACCEPT.	Response Status W						

Page 19 of 190 C/ 55 SC 55.2.3

C/ 55 SC 55.2.3 P78 L5 # 188 Squire, Matt Hatteras Networks 188	C/ 55 SC 55.2.3 P78 L9 # 85 Martin, David Nortel Networks
Comment Type T Comment Status D The event table is difficult to understand.	Comment Type T Comment Status D Wording change and proposal for period and threshold values.
SuggestedRemedy	SuggestedRemedy
Suggestions: 1) Replace the lines "If non-zero" with " An ErroredSymbolPeriod error occurs the number of symbol errors (xxVARIABLExx) within a window of xxVARIABLExx duration exceeds zero but is less then xxVARIABLExx. "	Change "Severely errored symbol period" to "Severly errored symbol second". Change "Defined threshold and timer. If exceed threshold in timed window, severely errored." to "A Severely Errored Symbol Second is defined as a 1 second interval with X more symbol errors for a Y rate Ethernet link. Where X=125 for Y=1000BASE; X=25 for Y=100BASE, X=10 for Y=10BASE." See attached spreadsheet for arithmetic. Will need discuss 1 sec period versus 3 sec query period.
2) Add numbers for events so they can be identified in PDUs.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
3) Add MIB like names for events in table. Proposed Response Response Status W	Will discuss query vs period intervals in Kauai.
PROPOSED ACCEPT.	C/ 55 SC 55.3 P78 L 31 # 20 Daines, Kevin World Wide Packets
CI 55 SC 55.2.3 P78 L6 # 84 Martin, David Nortel Networks	Comment Type E Comment Status D Grammer problem.
Comment Type T Comment Status D Wording change and proposal for period and threshold values. SuggestedRemedy	SuggestedRemedy Change "the OAM sublayer send a Ping Request" to "the OAM sublayer sends a Ping Request".
Change "Errored symbol period" to "Errored symbol second". Change "Defined threshold and timer. If non-zero and below threshold in timed window, errored." to "An Errored Symbol Second is defined as a 1 second interval with less than X	Proposed Response Response Status W PROPOSED ACCEPT.
symbol errors for a Y rate Ethernet link. Where X=125 for Y=1000BASE; X=25 for Y=100BASE; X=10 for Y=10BASE." See attached speadsheet for arithmetic. Will need to discuss 1 sec period versus 3 sec query period.	C/ 55 SC 55.3 P 78 L 32 # 341 Brown, Benjamin AMCC
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type E Comment Status D wrong word
Will discuss query vs period intervals in Kauai.	SuggestedRemedy Replace "send" with "sends"
	Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3an D	pratt 1.0 Comments			
C/ 55 SC 55.3 Martin, David	P 78 Nortel Networks	L 3536	# 88	C/ 55 SC 55.3 Brown, Benjamin	Р 78 АМСС	L 42	# 342
Comment Type E Wording clarification.	Comment Status D			<i>Comment Type</i> T Is this the place to pu	Comment Status D t a shall on the content of the P	ing Response	
Request and Ping Rea in an operational state OAMPDUs with MAC	ains in an operational state while sponse OAMPDUs into the subc while the local device OAM sub Client data and the remote devi with MAC Client data".	ordinate sublaye player multiplexe	r." to "The link remains es Ping Request		nall" unless this is being taken o , simply remove the word "will". <i>Response Status</i> W T IN PRINCIPLE.		ere else. If it's
Proposed Response PROPOSED ACCEP	Response Status W			55.6.3.5 Ping Respor Will remove the "will"	se contains the shalls.		
C/ 55 SC 55.3 Daines, Kevin	P 78 World Wide Pa	L 37 ckets	# 21	<i>Cl</i> 55 <i>SC</i> 55.3 Daines, Kevin	P 78 World Wide Pa	L 42 ackets	# 22
Comment Type E Verb tense should be	Comment Status D changed.			Comment Type E Change verb tense.	Comment Status D		
uggestedRemedy Change "will be" to "is				SuggestedRemedy Remote "will".			
Proposed Response PROPOSED ACCEP	Response Status W Г.			Proposed Response PROPOSED ACCEP	Response Status W		
C/ 55 SC 55.3 Squire, Matt	P 78 Hatteras Netwo	L 40 rks	# 191	Should be "Remove '	will' ".		
where the size and co the ping. SuggestedRemedy	Comment Status D onflicts with my recollection of wh intents of the ping cannot be set		· · · · · ·				
Resolve any conflict(s Proposed Response PROPOSED REJECT) with text and ping operation. Response Status W						
	ollection differs from the comme ents of Ping Request OAMPDUs						

CI 55 Jin Kim	SC 55.3.3.2 a	ind 56.3.4	P 74 and 122 Samsung	L	# 99042
Comment	Type TR	Commen	t Status R		D1.0 #166
It is im The cu	portant to provide		s between user sta reports total queu		IU, and which can not
One wa	ay of doing this is	s ONU provid	les to OLT how ma	any user stat	ions are currently active.
Suggested	Remedy				
1) Use numbe	r. 2 bytes in the cu	Irrent MPCP	-		U_i^- s active user station U_i^- s active user station
Proposed I REJEC	Response CT. D1.0 Comme	•	Status W		
	55 will be kept r t suggested remo			s such, the c	ommenter should pursue
			the P2MP Chair ar dual sub-clauses a		this comment, as the mbers.
25 6	5				
6 Nov 6 The ab Unfortu accura in more Howev	Inately, the OAM tely reflect both t e detail. The OAM er, after further r	ers "25 6 5" v l Editor failed he straw poll d Editor regro eview, it rem	vere the results of I to annotate the no question posed to ets this oversight. ains the opinion of	otes and con the P2MP/C	taken on this issue. Inment database to DAM STFs and the result ditor that any information DNUs is a P2MP STF
issue.	Hence, the secor	nd suggested	d remedy is again a	a PROPOSE	D REJECT. The OAM with the P2MP STF.
CI 55	SC 55.4		P 78	L 47	# 343
Brown, Ber	njamin		AMCC		
Comment T missing	<i>Type</i> E g comma	Commen	t Status D		
Suggested		e" with "mode	which is"		
Replac	e "mode which is	s with moue	5, WHICH 15		

	SC :	55.4		P 7	8	L 48	# 192
Squire, Ma	att			Hatte	ras Netw	vorks	
Comment	Туре	Е	Comment	Status	D		
						ed to send variat Ilways do this.	le length frames, with
Suggeste	dRemed	'y					
yank t	the sente	ence.					
Proposed PROF	•		Response N PRINCIPL		w		
C/ 55	SC :			P 7	8	L 48	# 27
Veerayah	Kumara	an		ICR			
Comment Comn	<i>Type</i> na missi	E ng	Comment	Status	D		
Suggeste	dRemed	ly					
	•						remote device" to remote devices"
Proposed PROF	•	se ACCEPT.	Response	Status	w		
C/ 55	SC :	55.4		P 7	8	L 49	# 851
Thatcher,	Jonatha	n		World	l Wide P	ackets	
Comment	Туре	т	Comment	Status	D		
Sente only b	nce "Aft e read c	er loopbac on exit from	k compare n loopback.	ed" unne	ecessari	ly implies that lo	opback statistics can
Suggeste	dRemed	ly					
		atistics can ler error co		any time	e. Make	sure state mach	ines allow this,
Proposed PROF	•		Response N PRINCIPL		W		
	vill be m		ead "Both du can be com		nd after l	oopback, the sta	atistics from both the
	and rem						
local a Also,	an addit	ional state				v the devices toANY_OAM.	compare stats,

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page
 Page

 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 5

Page 22 of 190 C/ 55 SC 55.4

C/ 55 SC 55.4	P 82	L	# 202	CI 55	SC 5	5.4	P 85	L1	# 200
Squire, Matt	Hatteras Netw	orks		Squire, M	att		Hatteras Netwo	orks	
Comment Type TR	Comment Status D			Comment	Туре	т	Comment Status D		
State diagram covers or	nly "Active" mode.			link_l	oss_timer_	_done no	t defined.		
SuggestedRemedy				Suggeste	dRemedy				
where a passive node s then it goes to SEND_L	ation state that says "PASSI" its and waits til it gets an info OCAL_REMOTE_1. Also ne	rmation OAM	PDU from the peer, and	Defin state. Proposed			section(s). Also need to inclu Response Status W	ude it in transiti	ons back to the initia
applies just to Active mo					'		N PRINCIPLE.		
Proposed Response	Response Status W								
PROPOSED ACCEPT.				See c	comment #	#141.			
C/ 55 SC 55.4	P 85	L	# 203	CI 55	SC 5	5.4	P 85	L10	# 201
quire, Matt	Hatteras Netw	orks		Squire, M	att		Hatteras Netwo	orks	
Comment Type TR We need to reset mr_oa	Comment Status D am_satisfied whenever we los	se connectivity		<i>Comment</i> Can't		E at the end	Comment Status D	E_1".	
SuggestedRemedy				Suggeste	dRemedy				
See comment. Might w	ant to include 3 states: unkne	own, true, and	false.	Cente	er text.				
Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.			Proposed PROF	Response POSED A		Response Status W		
mr oam satisfied (whic	h will be renamed so as to av	oid confusion	with Clause 22/45	C/ 55	SC 5	5.4.1	P 79	L 22	# 946
management register bi	ts) will need to be constantly	updated base	d on the state machine,	Ho-Sook I	_ee		ETRI		
definition of mr_oam_sa	AMPDUs, etc. The current the atisifed.	ought is to prov	vide guidance as to the	Comment	Туре	E	Comment Status D		
C/ 55 SC 55.4	P85	L	# 204				ate the loop-back procedure i acked frames in the local site.	n the remote si	te and the terminatio
quire, Matt	Hatteras Netw	orks		Suggeste	dRemedy				
Comment Type TR	Comment Status D								
Maybe we should separ	ate out loopback states from	initialization s	ates.	Proposed	Respons	е	Response Status W		
SuggestedRemedy				PROF	POSED A	CCEPT.			
Two different states: oa half of the current 55-4.	m_state, oam_lb_state, each	n controlled by	a different diagram, each						
Proposed Response	Response Status W								
PROPOSED REJECT.	-								

entering/exiting loopback has some merit. Will poll the OAM STF though.

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P802.3ah Drat	t 1.0 Comments
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C/ 55 SC 55.4.1	P 79	L2331	# 355	C/ 55	SC 55.4.1	P 79	L 25	# 852
Brown, Benjamin	AMCC			Thatcher, Jona	athan	World Wide Pa	ckets	
Comment Type T Co	omment Status D			Comment Typ	e T	Comment Status D		
No description is provided of gets loaded with the Loopbac				received t		ear that intent is to ensure that i te side is in loopback mode (be		
uggestedRemedy				SuggestedRei	,			
Add this description:					-	rmation is received that the rem	ote side is in lo	opback mode
"Upon receipt of a valid Loop length of time specified by th value of the variable lb_timer	e Loopback_Time value	in the OAMPDU ((see 55.6.3.3). The	Proposed Res		Response Status W		
zero value. The value of the zero (i.e., the timer expires). Loopback_Time value of zero	If the received Loopbac	k Control OAMPD	U indicates a	<i>Cl</i> 55 Brown, Benjar	SC 55.4.1 nin	Р 79 АМСС	L 25	# 344
The receipt of a valid Loopba according to the Loopback_T	Fime value in the newly r	received OAMPDL	J, regardless of the	Comment Typ		Comment Status D ond sentence of this first parag	raph:	
current setting of the lb_time	r, i.e. the new Loopback	_ nine value oven	lues all earlier value.					
This text is loosely copied fro	om 31B.3.3.	_	iues an eanler value.	the loopba	ack frames. It	o the MAC Client to control this t should stop data until loopbac an choose to do anything it war	k is turned on a	
This text is loosely copied fro	om 31B.3.3. timer in the Timer section	_	iues an eanier value.	the loopba	ack frames. It fficult but it ca	t should stop data until loopbac	k is turned on a	
This text is loosely copied fro This requires a new lb_timer roposed Response Re	om 31B.3.3.	_	iues an eanier value.	the loopba may be di SuggestedRea	ack frames. It fficult but it ca medy	t should stop data until loopbac	k is turned on o its.	or resolving counters
This text is loosely copied fro This requires a new lb_timer oposed Response Re PROPOSED ACCEPT.	om 31B.3.3. timer in the Timer section sponse Status W P79	– on, 55.5.2.1.5. <i>L</i> 24	# 89	the loopba may be di SuggestedRei Remove t Proposed Res	ack frames. It fficult but it c medy his sentence	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W	k is turned on o its.	or resolving counters
This text is loosely copied fro This requires a new lb_timer roposed Response Re PROPOSED ACCEPT. 55 SC 55.4.1 artin, David comment Type T Co	om 31B.3.3. timer in the Timer section sponse Status W P79 Nortel Network comment Status D	– on, 55.5.2.1.5. <i>L</i> 24		the loopba may be di SuggestedRed Remove t Proposed Res PROPOS	ack frames. It fficult but it c medy his sentence ponse	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W	k is turned on o its. he start of the i	or resolving counters
This text is loosely copied from This requires a new lb_timer This requires a new lb_timer Toposed Response Re PROPOSED ACCEPT. Toposed Response Re PROPOSED ACCEPT. Toposed Response Re PROPOSED ACCEPT. Toposed Response Re Toposed Response Respons	om 31B.3.3. timer in the Timer section <i>sponse Status</i> W P79 Nortel Network <i>omment Status</i> D equest a loopback.	– on, 55.5.2.1.5. <i>L</i> 24 ks	# <mark>89</mark>	the loopba may be di SuggestedRed Remove ti Proposed Res PROPOS CI 55	ack frames. If fficult but it ca medy his sentence, sponse ED ACCEPT SC 55.4.1	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W <i>P</i> 79	k is turned on o its. he start of the i	or resolving counters
This text is loosely copied from This requires a new lb_timer PROPOSED ACCEPT. 55 SC 55.4.1 Artin, David Comment Type T Com Add that Management may re	om 31B.3.3. timer in the Timer section <i>sponse Status</i> W P79 Nortel Network <i>omment Status</i> D equest a loopback. Test an OAM loopback."	Don, 55.5.2.1.5.	# 89	the loopba may be di SuggestedRen Remove ti Proposed Res PROPOS CI 55 Martin, David Comment Typ Incorrect s SuggestedRen	ack frames. If fficult but it ca medy his sentence, sponse ED ACCEPT SC 55.4.1 SC 55.4.1 re T statement. medy	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W <i>P</i> 79 Nortel Networks	k is turned on o hts. he start of the i <i>L</i> 2526	er resolving counters next sentence. # 90
This text is loosely copied from This requires a new lb_timer This requires a new lb_timer Toposed Response Re PROPOSED ACCEPT. Toposed Response Re PROPOSED ACCEPT. Toposed Response Re PROPOSED ACCEPT. Toposed Response Response Toposed Changement Response Response Toposed Changes I have a set of the set of	om 31B.3.3. timer in the Timer section <i>sponse Status</i> W P79 Nortel Network <i>omment Status</i> D equest a loopback. Test an OAM loopback."	Don, 55.5.2.1.5.	# 89	the loopba may be di SuggestedRea Remove ti Proposed Res PROPOS CI 55 Martin, David Comment Typ Incorrect s SuggestedRea Delete the	ack frames. If fficult but it ca medy his sentence, sponse ED ACCEPT SC 55.4.1 SC 55.4.1 the T statement. medy a sentence "V	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W <i>P</i> 79 Nortel Networks <i>Comment Status</i> D	k is turned on o hts. he start of the i <i>L</i> 2526	er resolving counters next sentence. # 90
This text is loosely copied fro This requires a new lb_timer Proposed Response Re PROPOSED ACCEPT. 55 SC 55.4.1 lartin, David comment Type T Co Add that Management may re uggestedRemedy Add "Management may requ 30 will be required. David La proposed changes. I have a	om 31B.3.3. timer in the Timer section <i>sponse Status</i> W P79 Nortel Network <i>omment Status</i> D request a loopback. west an OAM loopback." w has a draft presentation comment for this agains	Don, 55.5.2.1.5.	# 89	the loopba may be di SuggestedRea Remove ti Proposed Res PROPOS CI 55 Martin, David Comment Typ Incorrect s SuggestedRea Delete the sublayer in	ack frames. It fficult but it ca medy his sentence, sponse ED ACCEPT SC 55.4.1 SC 55.4.1 e T statement. medy e sentence "V in the local de sponse	t should stop data until loopbac an choose to do anything it war , along with the word "Also" at t <i>Response Status</i> W <i>P</i> 79 Nortel Networks <i>Comment Status</i> D When this request is sent, the part	k is turned on o hts. he start of the i <i>L</i> 2526	er resolving counter next sentence. # 90

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CI 55	SC 55.4.1	P 79	L28	# 624	CI 55	SC 55	.4.2	P 79	L 26	# 193
Healey, Ao	dam	Agere System	IS		Squire, M	att		Hatteras Netwo	orks	
Comment	Туре Т	Comment Status D			Comment	Туре	т	Comment Status D		
secon	d of transmissior	at Information PDU indicating of OAM loopback PDU. How	vever, OAM enti	ty may be configured to				state or a variable covering the state or a variable covering the state of a state of the state		
compl	liant implementat	ne per second and, accounting ion may not be able to meet t unnecessary loopback reques	he specified res		Suggester Add v		ate, an	d modify the NTT diagram.		
		apply to Variable Request / F	Response transa	actions.	Proposed PROF	'		Response Status W IN PRINCIPLE.		
Suggested Increa	-	second to prevent spurious a	additional reque	sts.	See o	omment #	344.			
'	Response POSED ACCEPT	Response Status W			The te	ext relating	g to OA	M blocking the MAC Client in t	he local device	e will be removed.
					CI 55	SC 55	.4.2	P 79	L 33	# 118
C/ 55	SC 55.4.1	P 79	L 30	# 135	Takashi, E	Izawa		Oki Electric Ind	dustry C	
Hirai, Hide	еуикі	Sumitomo Ele	ectric		Comment	Туре	Т	Comment Status D		
	ner the local devi mentation matter	Comment Status D ce retransmits the loopback re	equest or not sh	ould be an	about Accor Client	the point ding to fig to the sub	where t ure 55- pordina	ly about the point where loopb they are checked. 3, in the local device, the loop te sublayer. loopback test frames from the	back test fram	es are passed from MA
"may"	should be inserted	ed between "device" and "retr	ansmits".					e local device.		4 4 from
	Response POSED ACCEPT	Response Status W			menti	oned.		, how to check the normality of ioned more clearly in this subc	·	test frames isn't
C/ 55 Daines, Ke	SC 55.4.1 evin	P 79 World Wide P	L 30 ackets	# 401	Suggeste	dRemedy				
<i>Comment</i> Missir	<i>Type</i> E ng text.	Comment Status D			Proposed PROF	'		Response Status W IN PRINCIPLE.		
Suggested After "	,	popback request" add "and re	starts the timer.	n	Will a	dd text to	clarify.			
'	Response POSED ACCEPT	Response Status W								

C/ 55 SC 55.4.2 Seyoun LIM	P 79 SAMSUNG EL	L 39 .ECTRO	# 931	C/ 55 Veerayah	SC 55.4.2 Kumaran	Р 79 ICR	L 42	# 28
multicast addresses rese multicast addresses rese Because Slow Protocoli	Comment Status D the loops back every frame the rved for bridge protocols. Fr rved for bridge protocols are s DA is also one of sixteen Is looped back are all passe	ames that conta e passed to the l multicast addres	ain one of the sixteen MAC client. sses reserved, the text	reach Suggestee	sunk" in lines 42, ing the sink loca dRemedy	Comment Status D , and 45 is not descriptive. Is t tion. state, or reach the sink (which		
	l to loop back in the loopbac es reserved for bridge proto			PROF	Response POSED ACCEPT ged "sunk" to dis	Response Status W IN PRINCIPLE. carded.		
Proposed Response PROPOSED ACCEPT IN	Response Status W I PRINCIPLE.			C/ 55 Healey, A	SC 55.4.3 dam	P 79 Agere System	L 45 s	# 625
See comment #402. C/ 55 SC 55.4.2 Daines, Kevin	P 79 World Wide Pa	L 40 ackets	# 402	is cur	pback mode, the rently defined that	Comment Status D e entity to source frames should at MAC Client sources the fram a pattern verification and comp	nes, so the MAC	Client should sink the
Comment Type T Text warns of frames con DA. not the entire frame.	Comment Status D taining reserved multicast a	ddress. This res	striction is limited to the		-	re 55-3 to show that loopback ublayer.	frames terminat	e at the local MAC
SuggestedRemedy Reword b) as follows:					Response POSED REJECT	Response Status W		
address other than one o the remote device are pa	r, the remote device loops b f the sixteen reserved multio rsed, acted upon and sunk. f the sixteen reserved multio	cast addresses. Non-OAMPDU	OAMPDUs received by frames with destination	See c	omment #147.			
Proposed Response	Response Status W							

PROPOSED ACCEPT.

C/ 55 SC 55.4.3 P79 L 53 # 194 Squire, Matt Hatteras Networks	C/ 55 SC 55.4.3 P79 L 54 # 136 Hirai, Hideyuki Sumitomo Electric Sumitomo Electric Sumitomo Electric Sumitomo Electric
Comment Type T Comment Status D Seems like we should talk about what triggers a local device to leave loopback rather than from the remote view.	Comment Type T Comment Status D According to 55.4.3 c), the remote device may decide to exit loopback, while it is still in loopback mode. But this event is not described in the state machine in Figure55-4. It is no clear how "lb_timer" is handled when the remote device decides to terminate loopback
SuggestedRemedy Exiting loopback:	mode. SuggestedRemedy
A device that is put into loopback mode by its OAM peer stays in loopback until: a) the loopback time expires b) the device receives a Loopback Control OAMPDU with a loopback time of zero Not sure where the (c) one comes from.	There is no definition on timer "lb_timer" in the draft. There should be a definition of "lb_timer". The definition also should address how "lb_timer" is handled when the remote device decides to terminate loopback mode. When the remote device decides to terminate loopback mode, it shuld first set "lb_timer" zero(0), then transit to the next state.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Re: (a) & (b) good call.	See comment #155.
Re: (c) This arose during OAM STF work in New Orleans.	C/ 55 SC 55.4.3 P79 L 54 # 403 Daines, Kevin World Wide Packets World Wide Packets
C/ 55 SC 55.4.3 P79 L 54 # 404 values, Kevin World Wide Packets World Wide Packets # 404	Comment Type E Comment Status D Missing "."
Comment Type T Comment Status D Text regarding 'exiting loopback' should be added comparable to the text about 'initiating loopback.'	SuggestedRemedy Add "."
SuggestedRemedy In a new line after bullet c) add "When this occurs, the remote device sends an Information	Proposed Response Response Status W PROPOSED ACCEPT.
OAMPDU indicating it has exited loopback mode and is waiting for acknowledgement from the local device. When the local device acknowledges this, the two devices resume normal link operation."	C/ 55 SC 55.4.3 P 79 L 55 # <mark>595</mark> Yamada, Naoshi Fujikura.Ltd
Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D Retransmission of Loopback Control OAMPDU with a loopback time of 0 by the local devi should be permitted.
	SuggestedRemedy Add "If remote device is still loopback mode after the local devivce transmitted loopback control OAMPDU with a loopback time of 0, then the local device may retransmits the OAMPDU."
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

C/ 55 SC 55.4.4 P80 L10 # 345	CI 55 SC 55.4.4 P80 L14 # 195
Brown, Benjamin AMCC	Squire, Matt Hatteras Networks
Comment Type T Comment Status D	Comment Type T Comment Status D
Add a sentence to the end of the first paragraph	The exceptions for bridges bother me, i.e.:
SuggestedRemedy At the end of the first paragraph, add the following sentence: "Also, OAMPDU frames inserted by the remote device impacts the bandwidth available to loopback data."	"Care should be given to ensure that any loopback test frames do not use one of the sixter multicast addresses reserved for bridge protocols. Frames with one of the sixteen multicas addresses reserved for bridge protocols are not looped back and instead are passed up to the MAC Client in the remote device."
Proposed Response Response Status W PROPOSED ACCEPT.	First, its a layering violation for the MAC to know whats important to bridges.
	Second, its a big problem if 802.1D changes the set of "important" MACs.
C/ 55 SC 55.4.4 P 80 L 11 # 853 Thatcher, Jonathan World Wide Packets Volume Volume	Third, these should not be echoed back up to the bridge anyway, and they're not any more dangerous than OSPF, RIP, or other control protocols being echoed back.
Comment Type T Comment Status D	SuggestedRemedy
Add note regarding rate that ensures no loss (if necessary, include assumption on buffer	Yank that part (affects state diagrams as well).
size). In short, make it clear that the local side has the ability to avoid packet loss in loopback.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy	Discussion in OAM STF in New Orleans led to provision for allowing BPDUs, using one of
As you wish. Proposed Response Response Status W	the sixteen reserved multicast addresses, to pass through to the MAC Client in the remote device. Two primary reasons were given:
PROPOSED ACCEPT IN PRINCIPLE.	1) Ease hardware implementation by reducing inspection requirements
So this would be applicable to both P2P and P2MP topologies. The rate of loopback frame likely needs to be tuned to the implementation of loopback in the remote device, the depth of loopback buffers, etc. Will craft some text.	 Provide for future extensibility - "We don't know what the next protocol will be so let's no preclude it's use during loopback."
CI 55 SC 55.4.4 P 80 L 12 # 405 Daines, Kevin World Wide Packets # 105 # 1	After more thought, OAM Editor is concerned about interaction of protocols across "unidirectional" links.
Comment Type E Comment Status D	CI 55 SC 55.4.4 P80 L5 # 91
Qualify warning about reserved multicast addresses.	Martin, David Nortel Networks
SuggestedRemedy	Comment Type T Comment Status D
Change paragraph to read as follows: "Care should be given to ensure that the destination	Wording clarification.
address of any loopback test frames do not use one of the sixteen multicast addresses reserved for bridge protocols. Non-OAMPDU frames with a destination address equal to one	SuggestedRemedy
of the sixteen multicast addresses reserved for bridge protocols are not looped back and	Change "MAC Client frames originating from the remote device may be lost." to "MAC Client frames originating from the remote device are not transmitted by the subordinate OAM
instead are passed up to the MAC Client in the remote device."	
instead are passed up to the MAC Client in the remote device." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	sublayer". Proposed Response Response Status W
Proposed Response Response Status W	•

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 28 of 190 C/ 55 SC 55.4.4

C/ 55	SC 55.4.4	P 80	L 69	# 92	2
Martin, D	avid	Nortel Networks		_	

Comment Type TR Comment Status D

I have a big problem with this text - it contradicts the purpose of a loopback: "Depending upon the remote device's implementation of loopback, not every frame received is guaranteed to be looped back to the local device. Clock differences between the local and remote devices may also be a source of lost frames, as the delta in the rate of frames transmitted and received may overrun buffers within either device." The purpose of a loopback in commissioning a service is to verify that every frame sent comes back OK. The purpose of a loopback in the fault isolation of an existing service is to identify where in the system frames are being corrupted. The remote device loopback mechanism must guarantee that every frame received is looped back towards the local device.

SuggestedRemedy

That being said, I understand that there may be a desire to implement the loopback function in S/W. I suggest the way to address this is to add text to this clause that clearly limits the local device transmitted frame rate, so there is ample time for a remote device S/W process to perform the loopback function. In order to determine what that max local device transmitted frame rate should be, I suggest that the experts in the room discuss it and come to a consensus value.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The OAM Editor understands both the concern of the commenter and the intent of the Suggested Remedy.

The thought was to provide text clearly showing possible sources of frame loss during loopback. Clearly, frames with bit errors will be dropped by the receiving MAC sublayer, never reaching the OAM sublayer. This fact needed to be called out.

Would the Proposed Response to #148 would help mitigate the concern?

Bottom line: whether frame-level loopback is implemented in hardware or software frames may be lost regardless the transmission rate. Accounting for these lost frames and whether they were dropped due to link bit errors or clumsy loopback buffers is the key issue, right?

CI 55	SC 55	5.4.4	P 8	0	L 9	#	93
Martin, David			Norte	Networks			
Comment Type E Comment Status D Wording change.							
SuggestedF	Remedy						
			hat incur errors g transit will be		it will be dropped	" to	"As always,

Proposed Response Response Status W PROPOSED ACCEPT.

CI 55	SC 55.5	P 80	L	# 933	
Seyoun LI	M	SAMSUNG ELE	CTRO		

Comment Type T Comment Status D

I'd like to comment about loopback mode in case of point to multipoint. In the topology which is composed of one OLT and three ONUs, All ONUs(ONU1, ONU2 and ONU3) are in service. OLT try to send loop control message to ONU1 for loopback test. At the this moment, I think other ONUs are possible to be still in service.

SuggestedRemedy

I think it should be mentioned in the draft/standard that, in case of point to multipoint, OLT should control Loopback mode is applied to each ONU independently.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Agree with the commenter that in the scenario provided, other ONUs are "possible to be still in service." However, don't agree that text is needed to call this out. P2MP's LLID, virtual MAC and virtual OAM per ONU should make this clear.

CI 55	SC 55.5	P 80	L19	#	930
Seyoun LIM		SAMSUNG ELEC	TRO		

Comment Type T Comment Status D

At Loopback mode & Unidirectional mode, OAM PDUs are guaranteed to be transmitted as soon as be generated because path of OAM:MADR is blocked and MUX:MADR is only transmitted

However, other OAM PDUs is not guaranteed to be transmitted as soon as they are generated

SuggestedRemedy

OAM PDUs should be given higher priority in transmission than MAC client data frames at control multiplexer block.

During transmitting MAC client Data frame, if an OAM PDU is generated, it $_{i}^{-}$ s supposed to be inserted in the transmission of MAC client data frame

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Commenter is correct. brown_oam_1_1102 proposes needs enhancements. Refer to slides 3 and 11 for more details. These changes should satisfy your concern.

			P802.3ah D	oraft 1.0 Comments			
C/ 55 SC 55.5 Cravens, George	P 80 Mindspeed	L 21	# 426	C/ 55 SC 55.5 Squire, Matt	P 80 Hatteras Netwo	L 28 orks	# 196
(Copper STF). SuggestedRemedy	Comment Status D enamed PMI Aggregation during Aggregation with PMI aggregation Response Status W		-	Comment Type E Do we need a Discovery b SuggestedRemedy Add discovery function de Proposed Response PROPOSED ACCEPT.	·		
C/ 55 SC 55.5 Martin, David	P80 Nortel Networks	L 24	# 94	C/ 55 SC 55.5.1 Romascanu, Dan	Р 80 Avaya Inc.	L 39	# 160
<i>Comment Type</i> T Function clarification.	Comment Status D			•	Comment Status D is described here. However sed at the interface, and it i	,	
contain one of the sixte	a mode, this block passes to OAI en multicast addresses reserved en multicast addresses reserved <i>Response Status</i> W	d for bridge pro	otocols. Frames that	PROPOSED ACCEPT IN Rather than accepting the	Response Status W		
See comment #195.				In fact, adding a state to F	ig 55-4 gating a Passive de	evice from send	ing Information
C/ 55 SC 55.5 Martin, David Comment Type T	P 80 Nortel Networks Comment Status D	L 27	# 95	<i>Cl</i> 55 <i>SC</i> 55.5.1 Brown, Benjamin	ving one from the remote d P80 AMCC	evice is probabl	y in order. # 347
	responsible for performing the lo I Parser, swapping the SA / DA			Comment Type T Use shall for requirements SuggestedRemedy Replace "Nor may a passi	Comment Status D	′e"	
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		

Prior OAM STF work discussed pros/cons of swapping DA/SA or leaving intact. Believe the consensus was to leave untouched.

Cl 55 SC 55.5.1 Brown, Benjamin	Р 80 АМСС	L 4142	# 346	C/ 55 SC 55.5.2.1. Daines, Kevin	1 P81 World Wid	L 28 le Packets	# 408
Comment Type E Be consistent with cas requests, Information	Comment Status D se when referring to OAMPDU f	rames: ping, loo	pback, variable	Comment Type E Font change impacted within 55.5.2.1.	Comment Status D the indentation on the cor	nstants, variables, f	unctions and messages
SuggestedRemedy Use an upper case for Proposed Response PROPOSED ACCEP	r the first letter of all OAMPDU f Response Status W Г.	rames		SuggestedRemedy Fix indentation. Lines 28, 33, 36, 42 or Lines 5, 13 on pg 82. Lines 11, 23, 30, 33, 4			
C/ 55 SC 55.5.1 Brown, Benjamin	Р 80 АМСС	L 45	# 348	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Type T Use shall for requirem	Comment Status D			C/ 55 SC 55.5.2.1. Squire, Matt	1 P81 Hatteras N	L 522 Jetworks	# 197
SuggestedRemedy Replace "must not be	" with "shall not be"			Comment Type E "Code field for OAMPI	Comment Status D DUs" is confusing.		
Proposed Response PROPOSED ACCEP	Response Status W			SuggestedRemedy Replace with "Code fie	eld for Information OAM PI	DUs as defined in S	ection XXX."
C/ 55 SC 55.5.2 Daines, Kevin	P 80 World Wide Pa	L 49 ickets	# 406	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Type E Capitalization	Comment Status D			<i>Cl</i> 55 <i>SC</i> 55.5.2.1. Ueda, Iori		<i>L</i> a Communic	# 684
-	le to read "Service interfaces"			Comment Type E mr_oam_event need to Because mr_oam_event	Comment Status D to be define ent is used by the line 12 F	ig.55-5.	
Proposed Response PROPOSED ACCEP	Response Status W			 SuggestedRemedy define mr_oam_event.			
C/ 55 SC 55.5.2.1 Daines, Kevin	.1 P81 World Wide Pa	L 23 ckets	# 407	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Type E Missing word.	Comment Status D						
SuggestedRemedy Change line to read: "	The value of the Code field for I	nformation OAM	IPDUs."				
Proposed Response PROPOSED ACCEP	Response Status W						

C/ 55 SC 55.5.2.1.2 Brown, Benjamin	P81 AMCC	L 49	# 349	C/ 55 SC 55.5. Brown, Benjamin	2.1.2 P 82 AMCC	L1	# 350
Comment Type E From 2.3.2.2:	Comment Status D			Comment Type E From 2.3.1.2:	Comment Status D		
The semantics of the pr MA_DATA.indication (destination source_ade m_sdu, reception_:)	_address, dress,			MA_DATA.request	on_address, address,		
SuggestedRemedy				SuggestedRemedy			
Replace "status" with "in				Since you've chose with "req_service_c	en to precede all the other variab class"	oles with "req", rep	clace "service_class"
Fix usage on page 83, I				Fix usage on page	83. line 41		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCE	Response Status W		
/ 55 SC 55.5.2.1.2 om Mathey	P82 Independent	L	# 915	Cl 55 SC 55.5.2 Brown, Benjamin	2.1.2 P82 AMCC	L13	# 352
comment Type T	Comment Status D			· · ·			
provide interoperability,	om the MIB clause in 30.11.x the variable mr_oam_rest sh	.y.z to a state diag rould be accessab	ram variable. To le via a clause 45	Comment Type E missing word	Comment Status D		
				SuggestedRemedy			
register and bit.							
SuggestedRemedy	riable mr. oam. rest.			Replace "machine	reflect" with "machine to reflect"	•	
uggestedRemedy Add clause 45 bit for va	its referenced back to clause	30.		Replace "machine Proposed Response PROPOSED ACCE	Response Status W		
uggestedRemedy Add clause 45 bit for va Also for several other b Also for variables such	its referenced back to clause	30.		Proposed Response PROPOSED ACCE	Response Status W		# 409
uggestedRemedy Add clause 45 bit for va Also for several other b Also for variables such	its referenced back to clause as local_state. <i>Response Status</i> W	² 30.		Proposed Response	Response Status W	L13	# <mark>409</mark>
uggestedRemedy Add clause 45 bit for va Also for several other b Also for variables such roposed Response	its referenced back to clause as local_state. <i>Response Status</i> W	÷ 30.		Proposed Response PROPOSED ACCE CI 55 SC 55.5.2	Response Status W EPT. 2.1.2 P82	L13	# 409
Add clause 45 bit for va Also for several other b Also for variables such roposed Response PROPOSED ACCEPT See comment #356.	its referenced back to clause as local_state. <i>Response Status</i> W IN PRINCIPLE.		not accessible via	Proposed Response PROPOSED ACCE Cl 55 SC 55.5.2 Daines, Kevin	Response Status W EPT. P82 World Wide	L13	# 409
SuggestedRemedy Add clause 45 bit for va Also for several other b Also for variables such Proposed Response PROPOSED ACCEPT See comment #356. The leading "mr_" is ad	its referenced back to clause as local_state. <i>Response Status</i> W IN PRINCIPLE. mittedly confusing. These reg IO. Comment #356 clears up	gisters are, in fact,		Proposed Response PROPOSED ACCE CI 55 SC 55.5.2 Daines, Kevin Comment Type E	Response Status W EPT. 2.1.2 P82 World Wide Comment Status D	L13	# <mark>409</mark>

P802.	3ah Draft 1.0 Comments
C/ 55 SC 55.5.2.1.2 P82 L18 # 353 Brown, Benjamin AMCC	C/ 55 SC 55.5.2.1.2 P 82 L 2342 # 356 Brown, Benjamin AMCC
Comment Type E Comment Status D missing word	Comment Type E Comment Status D The use of mr_ should be used only for MDC/MDIO register bits. Use oam_for these Clause 30 attributes
SuggestedRemedy Replace "received non-zero" with "received a non-zero"	SuggestedRemedy Replace "A" with "B"
Same thing for page 83, line 5	
Proposed Response Response Status W PROPOSED ACCEPT.	A B mr_dying_gasp oam_dying_gasp mr_oam_reset oam_reset
CI 55 SC 55.5.2.1.2 P 82 L 18 # 354 Brown, Benjamin AMCC	mr_oam_code oam_code mr_oam_satisfied oam_satisfied mr_send_pdu oam_send_pdu remote_state oam_remote_state
Comment Type T Comment Status D What is lb_value? I don't see it defined anywhere?	Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy Replace "lb_value" with "Loopback_Time" as this is the name of the field from the Loopba Control OAMPDU	nck C/ 55 SC 55.5.2.1.2 P82 L26 # 198 Squire, Matt Hatteras Networks
Same thing for page 83, line 5	Comment Type E Comment Status D
Proposed Response Response Status W PROPOSED ACCEPT.	"Dying Gasp"s don't really occur unless you mean that a PDU with dying gasp bit set was sent. I think you mean that a fatal event has occured.
C/ 55 SC 55.5.2.1.2 P82 L21 # 96	SuggestedRemedy Replace "Dying gasp has occurred" (or not occurred) with "An uncrecoverable local failure has occurred" (or not occurred).
Martin, David Nortel Networks Comment Type E Comment Status D Wording change.	Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy The wording in this line "terminated remote loopback" I think means "exited remote	C/ 55 SC 55.5.2.1.2 P 82 L 38 # 220 Squire, Matt Hatteras Networks Hatteras Networks <td< td=""></td<>
loopback". If my understanding is correct then I suggest using "exited" rather than "terminated", which also aligns with the section 55.4.3 wording. Then again, maybe I'm just overly sensitive to the word 'terminated' these days.	How does management determine if it is satisfied? How do we make information available
Proposed Response Response Status W	to it? SuggestedRemedy
PROPOSED ACCEPT.	Need to add method to Clause 30 to address making OAM information available to management entity.
	Proposed Response Response Status W PROPOSED ACCEPT.

<i>Cl</i> 55 <i>SC</i> 55.5.2.1. Brown, Benjamin	2 P 82 AMCC	L 4750	# 357	Cl 55 SC Brown, Benjamin	55.5.2.1.2	Р 83 АМСС	L10	# 359
Comment Type T Use Local_State field i	Comment Status D n definition of oam_lb variable				E Co atch usage in R	mment Status D xOAMPDU		
"False; OAM Local_St	M Loopback is disabled" with ate [2:0] not equal to 010" Loopback is enabled" with te [2:0] equal to 010"			SuggestedRemec Replace "sub Proposed Respor PROPOSED	type" with "req_ ose Re	subtype" sponse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			C/ 55 SC Squire, Matt	55.5.2.1.2	P 83 Hatteras Net	L10 works	# 199
	2 P82 World Wide Pa Comment Status D able "oam_lb" should be the sta a, but it is preferrable to use the	te LB_STABLE.		Don't think "si should be. SuggestedRemed	ubtype" is used	omment Status D anywhere. "req_subty ne variable name.	rpe" is used, not s	sure if thats what this
SuggestedRemedy Remove oam_lb. Char	nge prior references to oam_lb	to LB_STATE.		Proposed Respor		sponse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			CI 55 SC Brown, Benjamin	55.5.2.1.2	Р 83 АМСС	L19	# 358
See comment #357.				Comment Type	T Co	omment Status D		
C/ 55 SC 55.5.2.1. Brown, Benjamin	2 P 82 AMCC	L 8	# 351	Need addition		use 30 attributes		
Comment Type T The description of the	Comment Status D link_fault variable is not comple	te		_, _		to STA that an oampd		he OAM Control block
	alue based on remote fault as p		th "A boolean value	oam_remote_	_state_available		ormation OAMPD	OU has arrived and that
based on any of the remote fault indications as per 30.5.1.1.4" Proposed Response Response Status W PROPOSED ACCEPT.			Proposed Respor		sponse Status W			

CI 55	SC 55.5.2.1.2	P84	L	# 137	All this said, there is a min and max rates.
Hirai, Hide	eyuki	Sumitomo Elec	ctric		
Comment	<i>Type</i> T Cor efinition of "minimum OA	mment Status D		l l rate" are not clear	C/ 55 SC 55.5.2.4 Squire, Matt
Accord But ac rate. Also, a inform as "Mi	ding to 55.5.2.1.5, any k cording to Figure55-5, in according to 55.5.2.1.5,	ind of OAMPDUs shou information OAMPDUs the duration of "min_ra sent at most once in 1 be 0 to 10, it seems th	ld be sent at le should be sent te_timer" is 1 s second. But a	ast at a minimum rate. at least at a minimum sec. This means iccording to Table55-11,	Comment Type E RxOAMPDU is confu definition to TxOAMF SuggestedRemedy Change to ReqOAMF Proposed Response
Suggested	dRemedy				PROPOSED ACCEP
Also, d In Tab	5.2.1.5, clarify that a min duration of "min_rate_tin ble55-7, add a sentence n expects information O	ner" should be defined "Minimum_PDU_Rate"	as 100msec. should be one		<i>Cl</i> 55 SC 55.5.2 . Daines, Kevin
	In Figure55-5, to make it nditional sentence	possible to send Inform	mation OAMPI	OUs periodically, change	Comment Type E Capitalization.
"mr_d	ying_gasp=FALSE * mr_ _oam_event * max_rate		te timer done) " to	SuggestedRemedy Change "OAMPDUS
"mr_d	ying_gasp=FALSE _send_pdu=FALSE * m	, _			Proposed Response PROPOSED ACCEP
+ m	in_rate_timer_done)"			/ Minimum_PDU_Rate, to	Cl 55 SC 55.5.2.4 Brown, Benjamin
	it possible to send OAM				Comment Type T
	Response Res	oonse Status WNCIPLE.			The max_rate_timer max rate, not simply
Point a	#1 oint #2 response below.	With this information	s Point #1 ans	wered?	SuggestedRemedy Replace "less than" v
Point Figure Rathe 55-5 e Reque would	#2 55-5 does not mandate r, if the min_rate_timer e emits an Information OAI est OAMPDUs at a rate of not be sent as a result of #3	that Information OAMI expires meaning no oth MPDU. Consider the ca of 2 per second. If this I of the 'lower' SEND_INF	PDUs be sent er OAMPDU h ase where Mar happened, the FORMATION s	at a minimum rate. as been sent, then Fig agement sends Ping n Information OAMPDUs	Proposed Response PROPOSED ACCEP
min_ra Point a	ate_timer. Management	may request that an In	formation OAN		

All this said, there is some text to clarify. Suggest adding some text to Table 55-7, for both min and max rates.

CI 55	SC 55.5.2.1.	4 P8	3	L 43	# 207
Squire, Matt		Hatte	ras Netwo	orks	
	, PDU is confusi	<i>Comment Status</i> ng as this isn't a rece U. Note that in Figur	ive but a		o not symmetrical in AMPDU, but not here
SuggestedRo Change	e <i>medy</i> to ReqOAMPI	DU			
Proposed Re PROPOS	esponse SED ACCEPT	Response Status	w		
CI 55	SC 55.5.2.1.	5 P 8	3	L 53	# 410
Daines, Kevi	n	World	l Wide Pa	ckets	
Comment Ty Capitaliz	•	Comment Status	D		
SuggestedRe Change	2	o "OAMPDUs".			
Proposed Re PROPO	esponse SED ACCEPT	Response Status	w		
<i>Cl</i> 55 Brown, Benja	SC 55.5.2.1. amin	5 P8 AMC		L 53	# 360
	, _rate_timer sł	Comment Status hould guarantee that ss than the max rate	-	s are emitted a	t not greater than the
SuggestedRo Replace	,	h "not greater than"			
Dropood Dr	esponse	Response Status	w		

C/ 55 SC 55.5.2.1.5 P 84 L 8 # 626 Healey, Adam Agere Systems 626	C/ 55 SC 55.5.3.1 P 85 L # 119 Takashi, Ezawa Oki Electric Industry C
Comment Type T Comment Status D link_loss_timer is never started. SuggestedRemedy	Comment Type T Comment Status D Figure 55-4 isn't mentioned about following. In the SEND_ANY_OAM state, if the local device initiates remote loopback, remote_state
In all instances in Figures 55-4, 55-7 where an OAMPDU is received, add "Start link_loss_timer" to the action list.	will change to LB_STABLE. And the local device will remain in the same state. This transfer line should be depicted in this diagram for clarify whether the state changes
Proposed Response Response Status W PROPOSED ACCEPT.	not. Figure 55-4 isn't reflected enough about loopback states. These should be depicted more clearly in the loopback state diagram.
Cl 55 SC 55.5.3 P 84 L 35 # 411 Daines, Kevin World Wide Packets # 11	SuggestedRemedy
Comment Type T Comment Status D Add description of remote device unilaterally terminating loopback.	Proposed Response Response Status W PROPOSED REJECT.
SuggestedRemedy Change sentence	Agree with the commenter that having the local device in SEND_ANY_OAM state and the remote device in LOOPBACK_START state, during loopback, is not intuitive.
"Once the timer reaches zero (either by counting down to zero or by being reset via a subsequent Loopback Control OAMPDU), the local device transitions to the LOOPBACK_END_1 state."	Not sure how "transfer line should be depicted in this diagram for clarify whether the state changes or not", though.
	Please suggest how to more clearly depict loopback states.
to:	C/ 55 SC 55.5.3.1 P85 L1 # 628
"Once the timer reaches zero (either by counting down to zero or by being reset via a subsequent Loopback Control OAMPDU or by management resetting the timer), the local device transitions to the LOOPBACK_END_1 state."	Healey, Adam Agere Systems Comment Type T Comment Status D
Proposed Response Response Status W PROPOSED ACCEPT.	Use of undefined variable "code" used in transition from SEND_LOCAL_ONLY to SEND_LOCAL_REMOTE. SuggestedRemedy
C/ 55 SC 55.5.3.1 P84 L47 # 97	Add definition of "code" to 55.5.2.1.2
Martin, David Nortel Networks	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type E Comment Status D What is the point of having this subsection heading alone? The state diagram was already referenced in the previous subsection. Image: Comment Status Imag	Cl 55 SC 55.5.3.1 P85 L1 # 627
SuggestedRemedy	Healey, Adam Agere Systems
Delete the subsection. Proposed Response Response Status W	Comment Type E Comment Status D Figure 55-4, entering state SEND_LOCAL_ONLY, link_loss_timer should be lost_link_tim per 55.5.2.1.5 or vice versa.
PROPOSED REJECT.	SuggestedRemedy
Artifact of the way diagrams spill onto pages. For consistency, I'd like to keep headings common throughout. Nearer the end of the project I'll work with someone more versed in	Change to make consistent.
Framemaker (IEEE editors in NJ, for instance) to clean these things up.	Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/

Page 36 of 190 C/ 55 SC 55.5.3.1

P802.3ah Draft 1.0 Comments C/ 55 SC 55.5.4 P85 L # 363 C/ 55 SC 55.5.4 P85 L45 # 206 Brown, Benjamin AMCC Squire, Matt Hatteras Networks Comment Type т Comment Status D Comment Type Comment Status D Е Remove this section per my OAM Control presentation Would help to keep the diagrams and text on the same page. I.e. 55.5.4.1 looks empty because the diagram is a page later. SugaestedRemedv SuggestedRemedv Keep figures with text. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 55 P85 # 98 SC 55.5.4 L41 Diagrams spill onto subsequent pages. Perhaps someone more fluent in Framemaker can Martin, David Nortel Networks coach the EFM Editor. Comment Status D Comment Type т C/ 55 SC 55.5.4.1 P85 / 48 # 99 States that "Per management's request, any OAMPDU may be transmitted". Martin. David Nortel Networks SuggestedRemedy Comment Status D Comment Type Е This will require additions to clause 30 to include Actions for the remaining OAMPDU types What is the point of having this subsection heading alone? The state diagram was already (Ping Request / Response are there now). David Law has a draft presentation from the referenced in the previous subsection. September meeting with proposed changes. I have comments against Clause 30 for actions for Loopback, Variable Request, Event Notification. I don't think it was intended that SuggestedRemedy Management could request sending an Information PDU (?) Delete this subsection. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED REJECT. Commenter is correct in that additions to Clause 30 are required. See comment #97. Per the question regarding the ability of Management to send an Information OAMPDU, the C/ 55 P86 L1SC 55.5.4.1 # 629 OAM Editor knows of no reason why a restriction should be placed on this. Healev. Adam Agere Systems C/ 55 SC 55.5.4 P85 L42 # 205 Comment Type **T** Comment Status D Squire, Matt Hatteras Networks Time-gualified transmission does not begin until local state and remote state are both Comment Status D stable. This would imply intial Information OAMPDU exchange can happen at arbitrarily Comment Type T slow or fast rates. OAM can send frames in response to received frames SugaestedRemedv SuggestedRemedy Re-work state machine so that timer qualifications limit Information OAMPDU exchanges to Add another justification for OAM transmit. 1 to 10 frames/s. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. See brown oam 1 1102.pdf.

P802.3ah	Draft '	1.0 Cc	mments
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C/ 55 SC 55.5.4.1 Healey, Adam	P 86 Agere Systems	L1	# 630	C/ 55 SC 55.5.5 Squire, Matt	P 86 Hatteras Netwo	L 30 rks	# 221
omment Type T	Comment Status D			Comment Type TR	Comment Status D		
Undefined variable "mr_oa SEND_INFORMATION.	am_event" used in transition	from SEND_A	NY to	capabilities to bring the	M is enabled, do we require sat link up? Ie. is an OAM stable	state a pre-curs	or to LINK_UP state?
uggestedRemedy					tity only pass data if OAM is in a	a STABLE State	<i>?</i>
Define mr_oam_event in 5	55.5.2.1.2.			SuggestedRemedy	ver on this issue. Currently it do	occon't coom co	though in the past it
oposed Response PROPOSED ACCEPT.	Response Status W			been discussed that if	OAM cannot come up then we state multiplexor diagram so that	shouldn't pass t	raffic. Easiest thing
55 SC 55.5.5	P 85	L	# 364	Proposed Response	Response Status W		
own, Benjamin	AMCC			PROPOSED ACCEPT			
omment Type T Replace figure 55-6 per m	Comment Status D of OAM Control presentation			Worthy of STF time in			
uggestedRemedy	-			to bring the link up, it w	e. If OAM were required to succ yould also need a timeout so as nected, one with OAM, the othe	to revert to a no	
	Response Status W			C/ 55 SC 55.5.6	P86	L	# 365
PROPOSED ACCEPT.				Brown, Benjamin	AMCC		
55 SC 55.5.5 nold, Brian	P 86 Cisco Systems	L 24	# 692	Comment Type T Replace Figure 55-7 p	Comment Status D er my OAM Control presentation	n	
omment Type T	Comment Status D			SuggestedRemedy	,		
instance, if more than one one type of OAMPDU hav	PDUs being readied for trans OAMPDU is ready for trans the any precedence over anot that was the second to be re- teme?	nit within a ma her if both are	x_rate period, does ready, or shall it be a	Proposed Response PROPOSED ACCEPT	Response Status W		
iggestedRemedy				CI 55 SC 55.5.6	P86	L 52	# 100
Suggest the group conside	er the relative priorities of OA		for transmit and either:	Martin, David	Nortel Networks	3	
	draft captures this sufficiently		Figuro 55 5 oro	Comment Type T	Comment Status D		
necessary, or	<pre></pre>	or changes to	Figure 55-5 ale	Wording clarification.			
	essary to prioritize OAMPDU	s ready for trar	nsmit.	SuggestedRemedy			
roposed Response	Response Status W			,	PDUs to the OAM Control funct	ion" to "passes	OAMPDUs and
PROPOSED ACCEPT IN	PRINCIPLE.			loopback frames to the	OAM Control function".	-	
Likely a OAM STF discuss	sion topic. However, permit tl	ne OAM Editor	to weigh in. With	Proposed Response	Response Status W		
Management controlling th	ne requesting of OAMPDUs,	prioritization is	s left up to	PROPOSED ACCEPT	IN PRINCIPLE.		
	handling of OAMPDUs, loop rown_oam_1_1102.pdf. Hov red.			assuming brown_oam_	ill need to be changed, this sug _1_1102.pdf is adopted. Specifi tation, are passed directly from d in the data path.	cally, loopback	frames, per the
	The shall Flatterial OO		I.C. D/diapatatatat	ad D/minsted CODT ODDES	P. Clause Desc Line Outstan	00 D	a 29 of 100
	n W/written C/closed U/un			eu Krejectea SUKT URDEN	R: Clause, Page, Line, Subclau	se Pag C/ 5	e 38 of 190 55
						0/3	a otaa.a.

C/ 55 SC 55.5.6

			P802.3ah L	Draft 1.0 Comments			
C/ 55 SC 55.5.7 Brown, Benjamin	Р 87 АМСС	L	# 366	C/ 55 SC 55.6.1 Healey, Adam	P88 Agere Systems	L13	# 631
Comment Type T Replace this entire sect	Comment Status D tion per my OAM Control pres	sentation		Comment Type E Missing "or".	Comment Status D		
SuggestedRemedy				SuggestedRemedy Change "encoding of (a	in element of)" or "encoding of	(or an elemer	nt of)".
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
Cl 55 SC 55.5.7 Yoshimura, Minoru	<i>Р</i> 87 NEC	L 24	# 130	C/ 55 SC 55.6.2 Ho-Sook Lee	<i>Р</i> 89 ЕТП	L 4	# 947
Comment Type E 'The Control Parser sha SuggestedRemedy	C C			5	Comment Status D pecific address of "01-80-c2-00 AMPDU is valid only for the poi nt link.		
'The Control Parser sha Proposed Response PROPOSED ACCEPT.	all' should be 'The OAM Co Response Status W	ntrol shall'			e DA of OAMPDU be defined to he link at the opposite side.	be the destir	nation MAC address of
<i>Cl</i> 55 <i>SC</i> 55.5.7 Martin, David	P87 Nortel Networ	L 24 ks	# 101	Proposed Response PROPOSED REJECT.	Response Status W		
Comment Type E Typo. SuggestedRemedy	Comment Status D			P2MP utilizes a LLID ca	w Protocols which use this par arried in the preamble which OI ce, a common, well-known DA	NUs use to de	termine which frames
Change "The Control P Proposed Response	arser shall implement" to "Th Response Status W	e OAM Control	block shall implement".	Cl 55 SC 55.6.2.1 Martin, David	P89 Nortel Networks	L 28	# 103
PROPOSED ACCEPT. C/ 55 SC 55.5.7	P87	L 44	# 854	Comment Type E Redundant text. Redun	Comment Status D dant text.		
Thatcher, Jonathan	World Wide P	ackets		SuggestedRemedy			
• •	Comment Status D transfer of the RxOAMPDU n F55-7, but never makes it to		er. Or, there is no	Proposed Response	ets, as follows and as shown in <i>Response Status</i> W PROPOSED ACCEPT.	" to "within tw	o octets as shown in".
SuggestedRemedy TxOAMPDU=TRUE is				THE OLD ACCEPT.	NOI COLD ACCELT.		
Proposed Response PROPOSED ACCEPT	Response Status WIIN PRINCIPLE.						
See comments #917, 3	66.						

C/ 55 SC 55.6.2.1 P 89 L 42 # 208 Squire, Matt Hatteras Networks Hatteras Networks<	C/ 55 SC 55.6.3 P 90 L 23 # 369 Brown, Benjamin AMCC Image: Compare the second secon
Comment Type E Comment Status D Is there any reason we don't take the flags from one end rather than take both 15 & 0 and go inside out?	Comment Type E Comment Status D missing a field in the description of the OAMPDU
SuggestedRemedy Use bit 2 for the event indicator.	SuggestedRemedy Replace "Version field and Code field" with "Version field, Flags field, and Code field"
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 55 SC 55.6.2.1 P 89 L 47 # 691 Arnold, Brian Cisco Systems	C/ 55 SC 55.6.3 P 90 L 25 # 210 Squire, Matt Hatteras Networks
Comment Type E Comment Status D	Comment Type TR Comment Status D We should define operation for unknown codes.
Table 55-2. The comment at the bottom of the table says that the specific faults comprising Link Fault, etc. are outside the scope of clause 55. That's correct, but could it hurt to include a cross reference TBD that eventually says which clauses within those we're currently working on that do (or will) specify which specific faults make up Link Fault, Dying Gasp, and the Event Indications? Basically point to the relevant sections in clause 61, 62, 63 for copper, 56 for P2MP, etc.	SuggestedRemedy We should probably handle unknown OAM opcodes the same way we handle unknown slow protocol types. " Whenever an implementation receives an OAM PDU with a code it does not understand, it
SuggestedRemedy Include a sentence indicating the relevant sections within the copper, P2P optics, and P2MP optics clauses where the specific faults are specified. Proposed Response Response Status W PROPOSED REJECT. We likely don't want to open Clause 55 each time a new PHY is added. Hence, the "outside	 passes that frame to the superior level. We can also use this to address our "OAM channel" requirement in that higher entities can send an OAM frame with a unknown opcode that would get passed up to the higher layers on the far end. We'd have to change a few of the state diagrams to do this if desired. Proposed Response Response Status W
the scope" text. Cl 55 SC 55.6.3 P90 L22 # 413 Daines, Kevin World Wide Packets Comment Type E Comment Status D "Type/Length" field should read "Length/Type". Bad editor. SuggestedRemedy See Comment.	PROPOSED ACCEPT IN PRINCIPLE. Okay, I'll accept the fact that we need to address unknown codes. However, I don't (yet) agree with the suggested remedy. For instance the current layering requires management to trigger the sending of each OAMPDU rather than having these originate in the MAC Client. Similarly, when OAM Control receives an OAMPDU, it signals mangement and provides the code and data. (This functionality is being added per other comments, and will be in D1.2). Given that OAM uses Slow Protocols, this methodology seems to make sense.
Proposed Response Response Status W PROPOSED ACCEPT.	sublayer, however, MAC Control didn't even pass unsupported opcodes anywhere. They were all discarded. So, OAM has more extensibility/upgradeability from that standpoint.

C/ 55 SC 55.6.3 Veerayah, Kumaran	<i>Р</i> 90 ICR	L 5	# 29	<i>Cl</i> 55 <i>SC</i> 55.6.3.1 Healey, Adam	P 90 Agere Syster	L 27 ns	# 632
	Comment Status D 00, "information" OAMPDU is	used, whereas	the other sections refer	Comment Type E Status OAMPDUs are no	Comment Status D	2	
to this as "status" OA SuggestedRemedy Change "information"	to "status" to be uniform.			SuggestedRemedy Change title for consiste	ncy.		
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 55 SC 55.6.3 Equire, Matt	Р 90 Hatteras Netv	L 7 works	# 209	C/ 55 SC 55.6.3.1 Takashi, Ezawa Comment Type E	P 90 Oki Electric li Comment Status D	L 27 ndustry C	# 120
Comment Type E Use consecutive code	Comment Status D			51	minology of "information OA e next five point.	MPDU" shall be	used instead of " statu
SuggestedRemedy Use consecutive code	es.			SuggestedRemedy	-, -, -, -		
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 55 SC 55.6.3.1 Squire, Matt	P 90 Hatteras Netv	L 27 works	# 211	C/ 55 SC 55.6.3.1 Seyoun LIM	<i>P</i> 90-91 Samsung e	L27	# 932
Comment Type E Is it the "status" or "in	Comment Status D			Comment Type E	Comment Status D		
SuggestedRemedy Just need consistent				In the last meeting, State (1) the title of 55.6.3.1 is (2) Figure 55-10 - status	us OAMPDU[0x00] was cha still Status OAMPDU[0x00 OAMPDU data field is also	·].	ation OAMPDU[0x00]
Proposed Response	Response Status W			But Draft v1.1 is not cha SuggestedRemedy	nged yet.		
PROPOSED ACCEP				the remedy is			
C/ 55 SC 55.6.3.1 Iartin, David	P 90 Nortel Netwo	L 27 rks	# 104	(1) 55.6.3.1 Information (2) Figure 55-10 - Inform	nation OAMPDU data field		
Comment Type E Old PDU name still lir	Comment Status D			Proposed Response PROPOSED ACCEPT.	Response Status W		
	PDU" to "Information OAMPD ction (e.g. p.90, line 29; p.91,						
Proposed Response PROPOSED ACCEP	Response Status W						

C/ 55 SC 55.6.3.1 P 91 L 1 # 212 aquire, Matt Hatteras Networks Hatteras Networks Hatteras Networks	C/ 55 SC 55.6.3.1 P 92 L 8 # 213 Squire, Matt Hatteras Networks
TR Comment Status D Suggest we put the fixed information in fixed places to expedite processing. uggestedRemedy	Comment Type TR Comment Status D Tables 55-4 and 55-5 seem to indicate we have two states: one for status, one for loopback. The descriptions and state diagrams earlier lent themself to a single state
Suggest something like:	covering both.
Local State: 1B	SuggestedRemedy Clarify how many states and what they mean. Suggest 2 state approach.
Remote State: 1B Local OAM Config: 1B Remote OAM Config: 1B	Proposed Response Response Status W PROPOSED REJECT.
Local OAMPDU Config: 4B Remote OAMPDU Config: 4B Local Extensions: Variable (TLV format) Remote Extensions: Variable (TLV format)	Given the remote control and acknowledgements that have to take place, two states se too few. OAM Editor could be misunderstanding his esteemed Chair, however.
roposed Response Response Status W	Five discreet states were identified during OAM STF work in New Orleans.
PROPOSED REJECT.	CI 55 SC 55.6.3.1 P 93 L # 131 Yoshimura, Minoru NEC
TLVs provide the greatest flexibility for future extensions to the standard. / 55 SC 55.6.3.1 P91 L 50 # 105	Comment Type T Comment Status D The unit value of Maximum_PDU_rate and Minimum_PDU_rate is not defined.
artin, David Nortel Networks	SuggestedRemedy
omment Type T Comment Status D	Add definition.
I had this in a comment at the September meeting and there was a concern raised that for the multi-vendor case the Management systems at the two ends of the link may have different definitions of what in-service means. However, we are defining vague events like temperature and power. I don't see any difference here. I still think this indicator could be of use to Management. For example, prior to initiating a loopback request, Management would	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. "frames per second" will be added per comment #370.
be wise to check that it is receiving an inactive in-service indication.	C/ 55 SC 55.6.3.1 P93 L16 # 633
IggestedRemedy	Healey, Adam Agere Systems
Add a new Local_State bit 3 called "in-service" with the following description: "1 = Management for the Local Device believes the end station is in the in-service state.	Comment Type E Comment Status D
Tied to MIB variable. 0 = Management for the Local Device believes the end station is not in the in-service state. Tied to MIB variable."	Tables 55-7 and 55-11, the maximum and minimum OAMPDU rate fields should specify units.
	SuggestedRemedy
roposed ResponseResponse StatusWPROPOSED ACCEPT.	For bits 7:4, change description to "4-bit field which conveys the maximum number of OAMPDUs that will be sent per second".
	For bits 3:0, change description to "4-bit field which conveys the minimum number of OAMPDUs that will be sent per second".
	Proposed Response Response Status W
	PROPOSED ACCEPT IN PRINCIPLE.

SC 55.6.3.1

C/ 55 SC 55	.6.3.1	P 93	L16	# 689	C/ 55	SC 55.6.3.1		P 93	L23	# 216
Arnold, Brian		Cisco Systen	าร		Squire, M	att	Н	atteras Netv	vorks	
Comment Type	r Comm	ent Status D			Comment	Type TR	Comment Sta	atus D		
Minimum_PDU_	Rate have a lowe		of 0x0. The mear	ning of a rate of 0x0 is			/remote extension oport for generic T			for? Wouldn't it be mething?
		t is then permissib		MPDUs (or stop AM has been mutually	Suggeste	dRemedy				
discovered and				Ain has been matually	Clarif	y use/benefits o	f extensions.			
SuggestedRemedy					Proposed	Response	Response Sta	tus W		
acceptable valu	e in Table 55-7. 1	This applies as we	Il to the same field	n better why 0x0 is an ds in the			T IN PRINCIPLE.			e vender identifier. Den
—	= 0	field of Table 55-	11.							e vendor identifier. Dan ceived during the review
Proposed Response	Respon CEPT IN PRINC	ISE Status W					g D1.0. These incl			
		IFLC.			Does	this help or is m	ore required?			
Will change to 0	X1.				C/ 55	SC 55.6.3.1		P 93	L 29	# 161
C/ 55 SC 55	.6.3.1	P 93	L 1620	# 106	Romasca	nu, Dan	A	vaya Inc.		
Martin, David		Nortel Netwo	rks		Comment	Type TR	Comment Sta	atus D		
Comment Type	Comm	ent Status D				51	l might be too sma	II, while Priv	ate Enterprise N	lum is too large
Timer values ne	ed to be aligned.				Suggeste	dRemedy	C C			0
SuggestedRemedy					00		ce_ldentifier field	o 16 bits. at	the expense of r	educina
		aximum_PDU_Rat				te_Enterprise_N				g
pages 83-84.	ne max_rate_time	er / min_rate_timei	r values defined in	subsection 55.5.2.1.5	Proposed	Response	Response Sta	tus W		
Proposed Response	Respon	se Status W			PROF	POSED ACCEP	T IN PRINCIPLE.			
PROPOSED AC					PEC	1212 allocated 3	22 hite for the Drive	to Entorpric	o Number corre	ct? If so, wouldn't be
										. The OAMPDU has the
Cl 55 SC 55 Squire, Matt	.6.3.1	P 93 Hatteras Net	L18 works	# 215	space	9.				
51		ent Status D han the max-pdu-i	rate							
SuggestedRemedy Add a sentence	to address.									
Proposed Response PROPOSED AC		se Status W								

Martin, David	P 93 Nortel Networl	L 45 ks	# 107	Cl 55 Cravens, C	SC 55.6.3.1 George	P 94 Mindspe	L 32	# 427
Comment Type T	Comment Status D	10		Comment	0	Comment Status		
I had this in a commen the multi-vendor case t different definitions of v temperature and power use to Management. Fo	t at the September meeting at he Management systems at th what in-service means. Howev r. I don't see any difference he or example, prior to initiating a is receiving an inactive in-ser	he two ends of th ver, we are defini ere. I still think th a loopback reque	ne link may have ing vague events like is indicator could be of	Prior to Howey octets This m	o exchanging M ver, in 55.6.2 h) in length."	lax_PDU_Size paramete it is stated that "Impleme vice that only supports 64	ers, a device send entations shall su	upport OAMPDUs at least 64
SuggestedRemedy				Suggested	0 1			
Add a new Remote_St	ate bit 3 called "in-service" wit ne Remote Device believes th			Either send 6	change 55.6.3. 64 byte OAMPD	Us, or change 55.6.2 h)	to require suppo	DU_Parameters, a device wird for 128 byte OAMPDUs.
	e Remote Device believes the able."	end station is n	ot in the in-service	Proposed PROP	,	Response Status V	v	
Proposed Response PROPOSED ACCEPT	Response Status W				Information OA mended.	MPDUs comfortably fit w	ithin 64 octets, tl	he first suggested remedy is
C/ 55 SC 55.6.3.1 Squire, Matt	Р 93 Hatteras Netw	L 7 vorks	# 214	<i>Cl</i> 55 Martin, Da	SC 55.6.3.1 vid	P 94 Nortel N	L 374 letworks	41 # 108
	Comment Status D m PDU size isn't incorporated	រ into any of the ៖	state diagrams or text	<i>Comment</i> Align t	<i>Type</i> T imer values.	Comment Status)	
descriptions. SuggestedRemedy Need to bring out in dis	agrams and text what we do w	<i>i</i> ith "bigger" fram	es (ie. violate the max	definit	o be consistent	t with the Maximum_PDL ax_rate_timer / min_rate_		n_PDU_Rate range fined in subsection 55.5.2.1.5
size).				Proposed		Response Status V	v	
	Response Status W IN PRINCIPLE.			PROP	OSED ACCEP	Т.		
size). Proposed Response	•	L 1 vorks	# 217	PROP CI 55 Romascar	SC 55.6.3.1		L 8	# [162
size). Proposed Response PROPOSED ACCEPT Cl 55 SC 55.6.3.1 Squire, Matt	IN PRINCIPLE.	-	# 217	CI 55	SC 55.6.3.1 u, Dan	P 95	nc.	# 162
size). Proposed Response PROPOSED ACCEPT C/ 55 SC 55.6.3.1 Squire, Matt Comment Type T Remove potential for cr	IN PRINCIPLE. P94 Hatteras Netw Comment Status D onflicts by having a single tab	vorks le definition for c	onfiguration and PDU	Cl 55 Romascar Comment	SC 55.6.3.1 u, Dan <i>Type</i> TR	P 95 Avaya li Comment Status	nc.)	# 162
size). Proposed Response PROPOSED ACCEPT Cl 55 SC 55.6.3.1 Squire, Matt Comment Type T Remove potential for cr	IN PRINCIPLE. P94 Hatteras Netw Comment Status D onflicts by having a single tab lying this to remote/local. Rep	vorks le definition for c	onfiguration and PDU	Cl 55 Romascar Comment Width Suggested	SC 55.6.3.1 u, Dan <i>Type</i> TR of Device_Iden <i>IRemedy</i>	P 95 Avaya lı <i>Comment Status</i> D tifier field might be too sr	nc.) nall, while Privat	e_Enterprise_Num is too lar
size). Proposed Response PROPOSED ACCEPT Cl 55 SC 55.6.3.1 Squire, Matt Comment Type T Remove potential for cr configuration, then app leads to potential probl	IN PRINCIPLE. P94 Hatteras Netw Comment Status D onflicts by having a single tab lying this to remote/local. Rep	vorks le definition for c	onfiguration and PDU	Cl 55 Romascar Comment Width Suggested Chang	SC 55.6.3.1 u, Dan <i>Type</i> TR of Device_Iden <i>IRemedy</i> ie width of Device	P 95 Avaya lı <i>Comment Status</i> C tifier field might be too sr ce_ldentifier field to 16 b	nc.) nall, while Privat	e_Enterprise_Num is too lar
size). Proposed Response PROPOSED ACCEPT Cl 55 SC 55.6.3.1 Squire, Matt Comment Type T Remove potential for cl configuration, then app leads to potential probl SuggestedRemedy	IN PRINCIPLE. P94 Hatteras Netw Comment Status D onflicts by having a single tab lying this to remote/local. Rep	vorks le definition for c producing the tak	onfiguration and PDU bles and definitions just	CI 55 Romascar Comment Width Suggested Chang Private	SC 55.6.3.1 u, Dan Type TR of Device_Iden /Remedy le width of Devi e_Enterprise_N Response	P 95 Avaya lı <i>Comment Status</i> C tifier field might be too sr ce_ldentifier field to 16 b	nc.) nall, while Privat its, at the expens	e_Enterprise_Num is too lar

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 44 of 190 C/ 55

SC 55.6.3.1

CI 55 SC 55.6.3.4 Ho-Sook Lee	2 95 ETRI	L 39	# 948	C/ 55 Seyoun LIM	SC 55.6.3.4/55	5.6.3.5 <i>P</i> 95 SAMSUNG E	L 37 LECTRO	# 934
Comment Type E It is required to define fiel time which is to be measu SuggestedRemedy	Comment Status D ds and procedures to recor ured through ping test.	d the transmission	on delay or the reply	perform C transmit F request re	I.1, Ping Reque DAM Ping. the r Ping Response acceived is copie	Comment Status D est OAMPDU[0x04] and Pin emote device which receive OAMPDU, when remote de ed to Ping response data fie code are necessary to indic	es Ping Request evice response, tl eld.	OAMPDU is going to he information of ping
Ping Response OAMPDL Ping Requests is left uns	Response Status W not add any timestamps or Js. This chore is left up to N pecified. Management may erbatim the data field into t	Anagement. He fill in the data fie	nce, the data field in eld with anything. The se.	0x04 for r (example Proposed Res	used to indicat equest and 0x0 : 0 = OAM Ping	e Ping request/response O 5 for response. 9 request, 1 = OAM Ping re <i>Response Status</i> W		of two kind of code-
CI 55 SC 55.6.3.4/55 Seyoun LIM	6.3.5 P95 SAMSUNG E	<i>L</i> 37 LECTRO	# 935			d of the Ping Request OAM need to consolidate isn't th		letely unspecified. With
but the data field is not de properly. SuggestedRemedy two kinds of data field are Type I field is composed Type(1 bit) for indication	of Ping Time Value(6bits), which one is request or res of Sequence Number(7 bit	Ping Time value	vith good contents Enable(1 bit), ence Number(8 bit).	Cravens, Geo Comment Typ Ping Res one seco SuggestedRe Align Ping Proposed Res	be T bonse time is up nd. This seems <i>medy</i> g Response rep	P95 Mindspeed Comment Status D nspecified, yet variable resp s inconsistant.		
 Ping time value : local d Ping Time value Enable Type : indicate Ping req Proposed Response PROPOSED REJECT. Since the remote device Ping Response OAMPDU management. Management 	evice sets this value to limi : indicate Ping Time value uest or response OAMPDL <i>Response Status</i> W copies the Ping Response J, any customization of the ent may choose to impleme F hasn't ventured into defin	is enable or disa I. OAMPDU data fi data field is left t nt time stamps, s	able. eld verbatim into the up to the local device's sequence numbers, etc.	Brown, Benjar Comment Typ The ping SuggestedRe Replace OAMPDU Variable F Proposed Res	be T response time s <i>medy</i> unspecified" wi ls in response t Response OAM	P95 AMCC Comment Status D should not be unspecified th "1 second", the same res o Loopback Control OAMP IPDUs in response to Varia Response Status W N PRINCIPLE.	DUs and the san	ne response time for

P802.3ah Drat	t 1.0 Comments
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paire, Matt Hatteras Networks D parter, Matt Hatteras Networks D Should say that implementations should try to ping responses fast. gggestedRemedy Change The response time is unspecified, although proposed Response Tesponse time is unspecified, although by the receiver to determine efficiency." opposed Response Responses Status W PROPOSED ACCEPT IN PRINCIPLE. Other comment Status D Replace Tink_loss_timer_done" with 'lost_link_timer_done" gggestedRemedy Comment Status D Replace Tink_loss_timer_done" with 'lost_link_timer_done" SuggestedRemedy PROPOSED ACCEPT. To frastance, '110 0000' vs. current '111 0 0 0 0'. Proposed Response Response Status W PROPOSED ACCEPT. Cl 55 SC Figure 55-4 P85 L1 # 361 Brown, Benjamin AMCC Comment Status D Replace Tink_loss_timer_done" with 'lost_link_timer_done" SuggestedRemedy Replace Tink_loss_timer_done with 'lost_link_timer_done" PROPOSED ACCEPT. Cl 55 SC Figure 55-4 P85 L1 # 361 Brown, Benjamin AMCC Comment Status D Replace Tink_loss_timer_done with 'lost_link_timer_done" PROPOSED ACCEPT. Cl 55 SC Figure 55-4 P85 L2 # 100 wrong timer name SuggestedRemedy Replace Tink_loss_timer_done with 'lost_link_timer_done" PROPOSED ACCEPT. Cl 55 SC Figure 55-4 P85 L2 # 100 wrong timer name SuggestedRemedy Replace Tink_loss_timer_done with 'lost_link_timer_done" Cl 55 SC Figure 55-4 P85 L2 # 100 wrong timer name SuggestedRemedy Replace Tink_loss_timer_done with 'lost_link_timer_done" Cl 55 SC Figure 55-4 P85 L2 # 100 wrong timer name SuggestedRemedy Comment Type E Comment Status D Text 'link_loss_timer_done is incorrect. SuggestedRemedy Remove 100 Mb's link segment PHY stack. Remove toxt '10 Mb's link segment 'HY stack. Remove taxt '10 Mb's link segment 'HY stack. Remove taxt '10 Mb's link segment 'HY stack. Remov										
Should say that implementations should try to ping responses fast. <i>iggestedRamedy</i> Consider issual improvement to determine efficiency. Consider issual improvement to figure. Consider issual improvement to determine efficiency. Consider issual improvement to determine efficiency. Consider issual improvement to figure. Other comments suggested 1 second responses. Will look at combining remedies. (55) SC fig.55.4 P85 L2 # 683 consider issual improvement Status D Nerve E Consider issual improvement to figure. ggested/Remedy Response Status W PROPOSED ACCEPT. C1 55 SC Figure 55.1 P75 L54 # [7] insc., Kevin World Wide Packets Soment Type E Comment Status D Nerve E orment Type E Comment Status D Nerve E Comment Status D singested/Remedy Nord Wide Packets T T Soment Type E Comment Status D Nervespace Response L2 # 916<				# 218		-	5-11			# 419
Should say that implementations should try to ping responses fast. gagestedRemedy Change The response line is unspecified. To "The response time is unspecified, although implementations are suggested to response time is unspecified, although of the receiver to determine efficiency." Opcode Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Other comments suggested 1 second responses. Will look at combining remedies. 15 S S (19,55-4 Pefs L2 # [683] replace "link_loss_timer_done" with "lost_link_timer_done" Matsushita Communic replace "link_loss_timer_done" with "lost_link_timer_done" Response Status W PROPOSED ACCEPT. P75 L54 # [17] replace "link_loss_timer_done" with "lost_link_timer_done" Response Status D Response Status D word Wide Packets more trype Comment Type Comment Type E Comment Status D replace filmed/y More dualspeed/PHY independent, perhaps a simpler layer stack diagram could be shown. Independent gagested/Remedy Independent Comment Type E Comment Status D word Wide Mackets Tom Mathey Independent Comment Type E Comment Status D Tom Mathey Wol	Squire, Matt	Hatteras Netw	vorks		Daines, Kevir	1		World Wide P	ackets	
Change "The response time is unspecified" to "The response time is unspecified, although implementations are suggested to second quickly as the response time may be measured by the receiver to determine efficiency." Consider hex grouping of bits. Opposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Protection of the suggested is conditioned and the subscription of the suggested is conditioned and the suggested is conditioned and the suggested and	51		esponses fast.							
Other comments suggested 1 second responses. Will look at combining remedies. 1 55 SC fig.55-4 P85 L2 # 683 ada, lori Matsushita Communic AMCC comment Type E Comment Status D Replace "link_loss_timer_done" with "lost_link_timer_done" Use Status W roposed Response Response Status W PROPOSED ACCEPT. P75 L54 # 17 1 Tom Mathey Independent Vith OAM being mostly media/speed/PHY independent, perhaps a simpler layer stack diagram could be shown. D rggestedRemedy Remove 100 Mb/s link segment PHY stack. SuggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove 100 Mb/s link segment PHY stack. SuggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove 100 Mb/s link segment PHY stack. SuggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove tow Mb/s link segment PHY stack. Remove tow Mb/s link segment PHY stack. Remove 100 Mb/s link segment PHY stack. Remove tow Mb/s link segment PHY stack. Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Status W	implementations are s by the receiver to dete Proposed Response	uggested to respond quickly a rmine efficiency." <i>Response Status</i> W			Consider For instar For instar	hex grouping nce, "0123 45 nce, "1110 00	67" vs. currei 00" vs. currei	nt "1 1 1 0 0 0 0		
155 SC fig.55-4 P85 L2 # 663 bda, lori Matsushita Communic Matsushita Communic comment Type E Comment Status D Replace "link_loss_timer_done" with "lost_link_timer_done" UggestedRemedy E Comment Status D roposed Response Response Status W PROPOSED ACCEPT. Proposed Response Status W 1 75 SC Figure 55-1 P75 L54 # 17 ines, Kevin World Wide Packets Independent omment Type E Comment Status D With OAM being mostly media/speed/PHY independent, perhaps a simpler layer stack diagram could be shown. Independent Comment Type uggestedRemedy Replace from "link_loss_timer_done" is incorrect. SuggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove 100 Mb/s link segment PHY stack. SuggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove tot 10 Mb/s link segment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Status W Proposed Response Response	Other comments suga	ested 1 second responses W	ill look at combi	ning remedies	PROPOS	ED ACCEPT				
roposed Response Response Status W PROPOSED ACCEPT. // 55 SC Figure 55-1 P75 L54 # 17 aines, Kevin World Wide Packets // 17 // 15 SC Figure 55-1 P75 L54 # 17 with OAM being mostly media/speed/PHY independent, perhaps a simpler layer stack diagram could be shown. D Independent Comment Type E Comment Status D ggestedRemedy Remove 100 Mb/s link segment PHY stack. Remove 100 Mb/s link segment PHY stack. SiggestedRemedy Change from "link_loss_timer_done" to "loss_link_timer_done" to consider a new name as "loss_link_timer_done" is close to "link_loss_timer_done" and already used in 10BASE-T. Proposed Response Response Status W	C/ 55 SC fig.55-4 Ueda, lori Comment Type E	P 85 Matsushita Co Comment Status D	L 2 ommunic		Brown, Benja Comment Typ wrong tim SuggestedRe Replace	min De E Der name Der	Commen er_done" witl	AMCC at Status D h "lost_link_times		# <u>361</u>
55 SC Figure 55-1 P75 L54 # 17 aines, Kevin World Wide Packets Tom Mathey Independent omment Type E Comment Status D Text "link_loss_timer_done" is incorrect. With OAM being mostly media/speed/PHY independent, perhaps a simpler layer stack diagram could be shown. D Text "link_loss_timer_done" is incorrect. uggestedRemedy Remove 100 Mb/s link segment PHY stack. Change from "link_loss_timer_done" to "loss_link_timer_done" to "loss_link_timer_done" is close to "link_loss_timer_done" is close to "link_loss_timer_done" and already used in 10BASE-T. roposed Response Response Status W	Proposed Response PROPOSED ACCEPT	,			,	,		e Status W		
comment Type E Comment Status D with OAM being mostly media/speed/PHY independent, perhaps a simpler layer stack diagram could be shown. UggestedRemedy SuggestedRemedy uggestedRemedy Remove 100 Mb/s link segment PHY stack. SuggestedRemedy Change from "link_loss_timer_done" to "loss_link_timer_done" is close to "link_loss_timer_done" is close to "link_loss_timer_done" and already used in 10BASE-T. reprosed Response Response Status W	-		-	# 17		SC Figure 5	5-4		L 2	# 916
uggestedRemedy Change from "link_loss_timer_done" to "loss_link_timer_done" Remove 100 Mb/s link segment PHY stack. Consider a new name as "loss_link_timer_done" is close to "link_loss_timer_done" and already used in 10BASE-T. Remove text "10 Mb/s link segment". Proposed Response Center diagram on page. PROPOSED ACCEPT.	Comment Type E With OAM being most	Comment Status D ly media/speed/PHY independ		simpler layer stack	Text "link	_loss_timer_o				
Remove text "10 Mb/s link segment". Proposed Response Response Status W Center diagram on page. PROPOSED ACCEPT. roposed Response Response Status W	SuggestedRemedy Remove 100 Mb/s link	segment PHY stack.			Change f Consider	rom "link_loss a new name	as "loss_link_			s_timer_done" and
	Remove text "10 Mb/s	link segment".			•	•		e Status W		
	Proposed Response PROPOSED ACCEPT	,								

C/ 55 SC Figure 55-4 P 85	L31 # 421	C/ 55 SC Figure55-4 P85 L # 138
Daines, Kevin World Wide Pa	ickets	Hirai, Hideyuki Sumitomo Electric
Comment Type T Comment Status D Exiting LOOPBACK_END_2 state and transitioning to have STA input. For instance, STA may want time to test. STA may want to query the local counters for Tx were lost. Based on results STA may allow link to rest. State and transition "remote_state = STABLE" may need to be condition to condition "remote_state = STABLE" may need to be condition to	o SEND_ANY_OAM state may want to read MAC attributes re: the loopback and Rx frames and determine if any sume operation or do something else	Comment Type T Comment Status D Figure55-4 and Figure55-5 describe only the state diagram of Active mode node. In Figure55-4, name of state "SEND_LOCAL_ONLY" is not appropriate for Passive mode node, because Passive mode node will not send any OAMPDUs before it receives information OAMPDU from the peer. In Figure55-5, there are two SEND_INFORMATION state defined in the state diagram. Although the two SEND_INFORMATION states execute same thing, the conditions to tra to the two states are different. Also, the condition to transit to SEND_INFORMATION state(upper one) is applicable only for Active mode node. SuggestedRemedy To make the document easily understandable, there should be Discovery state diagrams Active mode node and that of Passive mode node. Also, there should be Transmit state diagrams of Active mode node and that of Passive mode node. In Discovery state diagram for Passive mode node, name of state "SEND_LOCAL_ONLY should be changed to "WAIT_FOR_RECEIVE_INFORMATION". SEND INFORMATION states in Transmit OAMPDU state diagrams should be
Change transition from SEND_LOCAL_ONLY to SEN SuggestedRemedy Replace "Parser:MADI * code=Information_OAMPDL "oam_remote_state_available=TRUE" Proposed Response Response Status W		SEND_INFORMATION1 and SEND_INFORMATION2 states. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Points are all valid. See comment #363. The suggested remedy is contained within brown_oam_1_1102.pdf.
PROPOSED ACCEPT.		C/ 55 SC Figure55-4 P 85 L # 141
C/ 55 SC Figure 55-6 P 86 From Mathematication Independent Independent	L45 # 917	Hirai, Hideyuki Sumitomo Electric
Tom MatheyIndependentComment TypeTComment StatusD		Comment Type T Comment Status D The definition of "lost_link_timer" is not clear.
For remote loopback to work, the receive frame para transmit frame. I have searched for but can not find a assignment of OAM:MADI parameters to the OAM:M	some text or drawing which does an	SuggestedRemedy In 55.5.2.1.5, add a sentence that "If no information OAMPDUs are received by the time "lost_link_timer" expires, Discovery process is restart."
SuggestedRemedy		Proposed Response Response Status W
Is this missing?		PROPOSED ACCEPT.

C/55 SC Figure55-4 P 85 L # 139 Iirai, Hideyuki Sumitomo Electric 139	C/ 55SC Table 55-1P78L1# 19Daines, KevinWorld Wide Packets)
Comment Type T Comment Status D	Comment Type E Comment Status D	
In case both nodes of a link are Active mode nodes, if both nodes send a Loopback Control	Font size in Comment column is inconsistent. 9 pt/10 pt.	
OAMPDU simultaneously, both node transit to LOOPBACK_START state. This state is	SuggestedRemedy	
meaningless and should be avoided.	Make font sized consistent in table.	
SuggestedRemedy There should be loopback states of LOOPBACK_START2 and LOOPBACK_END2 for the	Proposed Response Response Status W	
node which requests loopback operation.	PROPOSED ACCEPT.	
Proposed Response Response Status W		
PROPOSED ACCEPT IN PRINCIPLE.	C/ 55 SC Table 55-1 P78 L3 # 340 Brown, Benjamin AMCC	0
Agree with commenter that two actives nodes requesting loopback at the same time needs to be handled.	Comment Type E Comment Status D	
	There are different fonts in the text of this table	
C/55 SC Figure55-5 P86 L # 140 Iirai, Hideyuki Sumitomo Electric Sumitomo Electric Sumitomo Electric	SuggestedRemedy	
	clean up fonts	
Comment Type T Comment Status D	Proposed Response Response Status W	
Figure55-5 does not consider the process while a node is in loopback mode. Therefore, a node in loopback mode transit to SEND_INFORMATION state(upper), and cannot send	PROPOSED ACCEPT.	
OAMPDUs except information OAMPDUs.		
	C/ 55 SC Table 55-12 P95 L11 # 417	7
	C/ 55 SC Table 55-12 P95 L11 # [417 Daines, Kevin World Wide Packets	7
<i>SuggestedRemedy</i> A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should		17
SuggestedRemedy	Daines, Kevin World Wide Packets	7
SuggestedRemedy A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are	Daines, Kevin World Wide Packets Comment Type E Comment Status D	7
GuggestedRemedy A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE.	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. Inconsistency Inconsistency Inconsistency	
SuggestedRemedy A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode.	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with	
A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode.	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT.	1
A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. D 55 SC Figure55-8 P87 L # 142 lirai, Hideyuki	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT.	1
SuggestedRemedy A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. Cl 55 SC Figure55-8 P87 L # 142 Lirrai, Hideyuki Sumitomo Electric Sumitomo Electric Sumitomo Electric	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-15 P97 L 13 # 372	1
SuggestedRemedy A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. E/ 55 SC Figure55-8 P 87 L # 142 Itrai, Hideyuki Sumitomo Electric Comment Type E Comment Status D "Generate Mux:MADI to" should be "Generate Mux:MADR to"	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-15 P 97 L 13 # 372 Brown, Benjamin AMCC Comment Type T Comment Status D When bit 7 = 1, how many Variable Value bytes follow? Is it always exactly 1 or 0? Status 1 or 0? Status 2 or 0?	72
A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. roposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. / 55 SC Figure55-8 P87 L # 142 irai, Hideyuki Sumitomo Electric omment Type E Comment Status D "Generate Mux:MADI to"	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-15 P 97 L 13 # 372 Brown, Benjamin AMCC When bit 7 = 1, how many Variable Value bytes follow? Is it always exactly 1 or 0? descripion of Variable Value says form 1 to 128.	72
A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. To 55 SC Figure55-8 P87 L # 142 Irrai, Hideyuki Sumitomo Electric Comment Type E Comment Status D "Generate Mux:MADI to" should be "Generate Mux:MADR to"	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-15 P97 L 13 # 372 Brown, Benjamin AMCC Comment Type T Comment Status D When bit 7 = 1, how many Variable Value bytes follow? Is it always exactly 1 or 0? description of Variable Value says form 1 to 128. SuggestedRemedy	72
A node in loopback mode should be remain in SEND_ANY state. That is Figure55-5 should describe that a node remains in SEND_ANY state, if "loacl_state" and "remote_state" are LB_STABLE, LB_UNSTABLE or LB_COMPLETE. Proposed Response Response Status W PROPOSED REJECT. While the OAM Editor didn't quite understand the comment, the OAM Discovery state machine has been created to handle both discovery and entering/leaving loopback mode. Cl 55 SC Figure55-8 P87 L # 142 dirai, Hideyuki Sumitomo Electric Comment Type E Comment Status D "Generate Mux:MADI to" should be "Generate Mux:MADR to"	Daines, Kevin World Wide Packets Comment Type E Comment Status D Inconsistency of field names. SuggestedRemedy Change "Private_Enterprise_Num" to "Enterprise_Identifier" to be consistent with "Device_Identifier" and "Version_Identifier". Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-15 P 97 L 13 # 372 Brown, Benjamin AMCC When bit 7 = 1, how many Variable Value bytes follow? Is it always exactly 1 or 0? descripion of Variable Value says form 1 to 128.	72

Comment Type E Comment Status D Don't need to keep code 01 reserved be sent" with "4-bit field that conveys the maximum number of OAMPDUs sent per sec Don't need to keep code 01 reserved For Minimum_PDU_Rate, replace "4-bit field which conveys minimum rate OAMPDUs	1 002.0011	
Bits are wrong. Italics. SuggestedRemedy Reword "Description" to read: SuggestedRemedy Change "Response Tespenses taviable Error indication. Refer to Table 55-16 for the encoding of bits 22:15 represent the length of the Variable Value field in octets. An encoding of bx00 equals 128 octets. All other encodings represent actual lengths. SuggestedRemedy Classes Status W Vhen but 23 = 0, bits 22:15 represent the length of the Variable Value field in octets. An encoding of 0x00 equals 128 octets. All other encodings represent actual lengths. Cl 55 SC Table 55-4 P91 L52 # 414 Daines, Kevin World Wide Packets Proposed Response Response Status W PGOPOSED ACCEPT. Cl 55 SC Table 55-2 P89 L4146 # 367 Dromment Type E Comment Status D Capitalizations. SuggestedRemedy Change "toopback" to "Loopback" to "Loop		
Reword "Description" to read: Change "Reserved" to italics", repeat on line 17. When bit 23 = 1, bits 22:16 represent a Variable Error indication. Refer to Table 55-16 for the encoding of bits 22:15. Proposed Response Casponse Status W When but 23 = 0, bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:15 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent the length of the Variable Value field in octets. An encoding of bits 22:16 represent Value		
When but 23 = 0, bits 22:16 Pois 22:16 When but 23 = 0, bits 22:15 represent the length of the Variable Value field in octets. An encoding of bits 22:15 represent the length of the Variable Value field in octets. An encoding of 0x00 equals 128 octets. All other encodings represent actual lengths. Proposed Response Response Status W PROPOSED ACCEPT. Ci 55 Ci 55 SC Table 55-2 P89 L 4146 # 357 Comment Type E Comment Status D Add references to bit descriptions SuggestedRemedy Dying Gasp gets reference to 30.11.x.y.z Link Fault get reference to 30.5.1.1.4 Proposed Response PROPOSED ACCEPT. Ci 55 SC Table 55-3 P90 Comment Type E Comment Status D PROPOSED ACCEPT. Ci 55 SC Table 55-7 P93 L 1619 # 370 Brown, Benjamin AMCC MCC Comment Type T Comment Status D Brown, Benjamin AMCC MCC See ent with 4-bit field that conveys the maximum number of OAMPDUs sent per see of with 4-bit field which conveys maximum rate OAMPDUs be sent with 4-bit field which conveys maximum rate OAMPDUs sent per see of with 4-bit field which conveys maximum rate OAMPDUs sent per see of with 4-bit field which conveys minimmum mate OAMPDUs sent per see of Collapse this table,		
encoding of 0x00 equals 128 octets. All other encodings represent actual lengths. Proposed Response Response Status W PROPOSED ACCEPT. C1 55 SC Table 55-2 P 89 Comment Type E Comment Status D Add references to bit descriptions AMCC SuggestedRemedy Dying Gasp gets reference to 30.11.x.y.z Link Fault get reference to 30.5.1.1.4 Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 C1 55 SC Table 55-3 P 90 L 6 # 368 Brown, Benjamin AMCC Comment Type E Comment Status D Don't need to keep code 01 reserved L 6 # 368 SuggestedRemedy Collapse this table, so that event notification get code 01 Proposed Response Response Status W Proposed Response Response Status W D Missing description of what the value refers to SuggestedRemedy Collapse this table, so that event notification get code 01 Proposed Response Response Status W Proposed Response Response Status W Proposed Response Kesponse Status W Proposed Response Status W SuggestedRemedy Collapse this table, so that ev		
PROPOSED ACCEPT. Comment Type E Comment Status D Comment Type E Comment Status D Add references to bit descriptions SuggestedRemedy Dying Gasp gets reference to 30.11.x.y.z Link Fault get reference to 30.5.1.1.4 Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-3 P90 L 6 # 368 Brown, Benjamin AMCC Comment Type E Comment Status D Missing description of what the value referes to C/ 55 SC Table 55-3 P90 L 6 # 368 Brown, Benjamin AMCC Comment Type E Comment Status D Comment Type E Comment Status D Missing description of what the value referes to SuggestedRemedy Doin'n eed to keep code 01 reserved SuggestedRemedy SuggestedRemedy Collapse this table, so that event notification get code 01 For Maintum_PDU_Rate, replace "4-bit field which conveys minimum number of OAMPDUs sent per sector SuggestedRemedy Collapse this table, so that event notification get code 01 Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W	encoding of 0x00 equals 128 octets. All other encodings represent actual lengths.	
Brown, Benjamin AMCC Comment Type E Comment Status D Add references to bit descriptions SuggestedRemedy PROPOSED ACCEPT. V Dying Gasp gets reference to 30.11.x.y.z Link Fault get reference to 30.5.1.1.4 Proposed Response Response Status W PROPOSED ACCEPT. C/ 55 SC Table 55-3 P90 L 6 # 368 Brown, Benjamin AMCC Comment Type T Comment Status D Comment Type E Comment Status D Missing description of what the value refers to SuggestedRemedy Don't need to keep code 01 reserved SuggestedRemedy For Maximum_PDU_Rate, replace "4-bit field which conveys maximum rate OAMPDUs be sent" with "4-bit field that conveys the minimum number of OAMPDUs sent per sec SuggestedRemedy Collapse this table, so that event notification get code 01 Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W		
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Dying Gasp gets reference to 30.11.x.y.z Link Fault get reference to 30.5.1.1.4 Proposed Response Response Status W PROPOSED ACCEPT. AMCC Cl 55 SC Table 55-3 P90 L 6 # 368 Brown, Benjamin AMCC Missing description of what the value refers to SuggestedRemedy Conment Type E Comment Status D SuggestedRemedy SuggestedRemedy Collapse this table, so that event notification get code 01 For Minimum_PDU_Rate, replace "4-bit field which conveys the minimum number of OAMPDUs sent per sector Proposed Response Response Status W	Add references to bit descriptions	, , ,
PROPOSED ACCEPT. Comment Status Percent Status Per		C/ 55 SC Table 55-7 P93 L1619 # 370
Cl 55 SC Table 55-3 P90 L 6 # 368 Brown, Benjamin AMCC Comment Type E Comment Status D Don't need to keep code 01 reserved SuggestedRemedy For Maximum_PDU_Rate, replace "4-bit field which conveys maximum rate OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that conveys the maximum number of OAMPDUs sent per second that the same changes to Table 55-11. Proposed Response Response Status W	Proposed Response Response Status W	Brown, Benjamin AMCC
Brown, Benjamin AMCC SuggestedRemedy Comment Type E Comment Status D Don't need to keep code 01 reserved D be sent" with "4-bit field that conveys the maximum number of OAMPDUs sent per sector SuggestedRemedy Collapse this table, so that event notification get code 01 For Minimum_PDU_Rate, replace "4-bit field which conveys minimum rate OAMPDUs be sent" with "4-bit field that conveys the minimum number of OAMPDUs sent per sector Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status		
Comment Type E Comment Status D Don't need to keep code 01 reserved SuggestedRemedy For Minimum_PDU_Rate, replace "4-bit field which conveys maximum rate OAMPDUs sent per sector of the convert of		SuggestedRemedy
SuggestedRemedy For Minimum_PDU_Rate, replace "4-bit field which conveys minimum rate OAMPDUs be sent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent" with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with" "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "with "4-bit field that conveys the minimum number of OAMPDUs sent per seccent "	Comment Type E Comment Status D	For Maximum_PDU_Rate, replace "4-bit field which conveys maximum rate OAMPDUs will be sent" with "4-bit field that conveys the maximum number of OAMPDUs sent per second"
Proposed Response Response Status W Make the same changes to Table 55-11. PROPOSED ACCEPT. Proposed Response Response Status W	SuggestedRemedy	For Minimum_PDU_Rate, replace "4-bit field which conveys minimum rate OAMPDUs will be sent" with "4-bit field that conveys the minimum number of OAMPDUs sent per second"
PROPOSED ACCEPT. Proposed Response Response Status W		Make the same changes to Table 55-11.

P802.3ah Draft '	1.0 Comments
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Cl 55 SC Table 55 Daines, Kevin	-8 P 93 World Wide Pa	L 32 ckets	# 415	C/ 55 SC Table55-2 P 89 L # 143 Hirai, Hideyuki Sumitomo Electric
Comment Type E Inconsistency of field n SuggestedRemedy	Comment Status D ames.			Comment Type E Comment Status D Table55-2,Table55-4(p91), Table55-6(p92),Table55-7 and 9(p93), Table55-10 and 11(p94) There is no description on reserved fields of the tables above.
,	prise_Num" to "Enterprise_Ide "Version_Identifier".	ntifier" to be co	nsistent with	SuggestedRemedy add description to each table that "reserved field should be set to zero when sending a OAMPDU, and should be ignored on reception."
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
Cl 55 SC Table 55 Daines, Kevin	-9 P 93 World Wide Pa	L 47 ckets	# 416	CI 55 SC Table55-5 P92 L # 144 Hirai, Hidevuki Sumitomo Electric
Comment Type E Capitalizations.	Comment Status D			Comment Type E Comment Status D "xx" in the table is not understandable.
SuggestedRemedy Change "loopback" to ' Change "stable" to "Sta				SuggestedRemedy Replace "xx" with "Don't care"
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
Cl 55 SC Table55- Hirai, Hideyuki	16 P97 Sumitomo Elec	<i>L</i> tric	# 145	
Comment Type T There is no specific ex	Comment Status D	on.		
SuggestedRemedy Add a specific descript error indication in detai	ion on each error indication, or I.	point a senten	ce which describe the	

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Good point. A little more description is nice to have.

Cl 56	SC			P 107	L	# 149	
Kramer, Gler			0	Teknovus			
Comment Ty (At editor	•			t Status D n of this comr	ment may be char	nged to Editorial)	general
	ofclause				endent interface) i rence to a particu	s media-independ lar media type is	lent. In
SuggestedRe	emedy						
				Point Control" al Mult-Point ((OMP) to Multi-Po	oint Control (MPC)	
Although gating of	SED AC n media f transm	indeper ssion b	N PRINCIPI dence is tru y activation	ie in theory, in and deactivat	n practice PON co ion of a laser at th ved by the layer.	ntrol is explicitly to he end station.	uned to
			u Clause 4	3 we receive:			
Optical M Optical M This leav	Multi-Poi Multi-Poi ves "Cor	nt Cont nt Cont htrol" ou	ink Aggrega rol <-> Link rol Protocol t of the Clau	ation Aggregation ((MPCP) <-> L use name.		Control Protocol (I	_ACP)
Optical M Optical M This leav For purit	Multi-Poi Multi-Poi ves "Cor sy of forn SC	nt Cont nt Cont htrol" ou	ink Aggrega rol <-> Link rol Protocol t of the Clau	ation Aggregation ((MPCP) <-> L use name. o be changed P113	ink Aggregation	Control Protocol (I # <mark>754</mark>	_ACP)
Optical M Optical M This leav For purit <i>Cl</i> 56 Dolors, Sala	Multi-Poi Multi-Poi ves "Cor cy of forn SC	nt Cont nt Cont htrol" ou	ink Aggrega rol <-> Link rol Protocol t of the Clau	ation Aggregation ((MPCP) <-> L use name. o be changed P113 Broadcom	ink Aggregation (
Optical M Optical M This leav For purity Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex	Multi-Poi Multi-Poi ves "Cor y of form SC vpe 1 C contro re, this s king con	nt Cont nt Cont ntrol" ou n the cla n the cla R I frames entence trol.	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at is only app	ation Aggregation ((MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC com	ink Aggregation (to "Multi-Point" L 3	# 754 e client interface e	layering
Optical M Optical M This leav For purit Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex See my o	Multi-Poi Multi-Poi ves "Cor y of form SC C contro re, this s king con earlier c	nt Cont nt Cont ntrol" ou n the cla n the cla R I frames entence trol.	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at	ation Aggregation ((MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC com	ink Aggregation (to "Multi-Point" <i>L</i> 3 trol client have th	# 754 e client interface e	layering
Optical M Optical M This leav For purit Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex See my of Suggested R	Multi-Poi Multi-Poi ves "Cor y of form SC 2 contro ce, this s king con earlier c emedy	nt Cont nt Cont htrol" ou n the cla r r I frames entence irol.	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at i s only app t on line 2.	ation Aggregation ((MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC con licable to MAC	ink Aggregation (to "Multi-Point" <i>L</i> 3 trol client have th	# 754 e client interface e	layering
Optical M Optical M This leav For purity Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex See my of Suggested Re Elimante	Multi-Poi Multi-Poi ves "Cor y of form SC C contro re, this s king con earlier c emedy e the ser	nt Cont nt Cont htrol" ou n the cla r r I frames entence irol.	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at i is only app t on line 2. t is not corre	ation Aggregation C (MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC com licable to MAC	ink Aggregation (to "Multi-Point" <i>L</i> 3 trol client have th	# 754 e client interface e	layering
Optical M Optical M This leav For purity Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex See my of Suggested Re Elimante Proposed Re	Multi-Poi Multi-Poi ves "Cor y of form SC C contro re, this s king con earlier c emedy the ser esponse SED AC	nt Cont nt Cont htrol" ou n the cla r I frames entence trol. cept I	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at i is only app t on line 2. t is not corre <i>Response</i> N PRINCIPI	ation Aggregation C (MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC com licable to MAC	ink Aggregation (to "Multi-Point" <i>L</i> 3 trol client have th C control frames i	# 754 e client interface e	layering
Optical M Optical M This leav For purity Cl 56 Dolors, Sala Comment Ty The MAC Therefor multiplex See my of Suggested Re Elimante Proposed Re	Multi-Poi Multi-Poi ves "Cor y of form SC C contro re, this s king con earlier c emedy the ser esponse SED AC	nt Cont nt Cont htrol" ou n the cla r I frames entence trol. cept I	ink Aggrega rol <-> Link rol Protocol t of the Clau uuse name t <i>Commen</i> s initiated at i is only app t on line 2. t is not corre <i>Response</i> N PRINCIPI	ation Aggregation C (MPCP) <-> L use name. o be changed P113 Broadcom t Status D teh MAC com licable to MAC ect. Status W LE.	ink Aggregation (to "Multi-Point" <i>L</i> 3 trol client have th C control frames i	# 754 e client interface e	layering

Cl 56 Dolors, Sa	SC ala			P 116 Broadcom	L	# 764
Comment		TR	Commen	t Status D		multiplex
the de		of the va			_in_progress i	s an AND operation of all
The s	tate dia	gram in F	Figure 56-7 ne	ver resets de va	riables.	
The t	ransmitD	one con	ning from the M	MAC j should dis	able the Trans	smitEnable j
Suggeste	dRemec	ly				
				plated state diag transmit a frame		ation. This should be
			enerated by M to on by a sch	A_control or MA	_DATA	
multip	ooint_tra	nsmissio	on_in_progress	s = AND(Transm	nitEnable[1n]))
	mitEnat sponding		n off by the end	d of frame transr	mission signal	given by the
The p	rocess	can be p	ut in a state di	agram.		
Proposed	Respor	se	Response	Status W		
-		ACCEPT	IN PRINCIPL	.E.		
Remo Wher	point_tra	point_tra w to turn	ansmission_in on and off the	s should be OR(_progress from I e TransmitEnable dependent and c	Figure 56-7. e signal is dep	
C/ 56	SC			P 117	L	# 765
Dolors, Sa	ala			Broadcom		
Comment	Type	Е	Comment	t Status D		general
What	is the O	MP serv	ice interface ir	n figure 56-8		
	ce interfa		defined by int	erlayer commun	ication. Within	a layer we should define
Suggeste	dRemec	ly				
				signals and for c ndicate they are		th other boxes show the box.
Proposed				Status W		

PROPOSED ACCEPT IN PRINCIPLE. Arrows out os sides are variables affected (left - in, right - out), not service interfaces which

are top and bottom (bottom - in, top - out).

P 119 Broadcom	L	# 767	Cl 56 Dolors,
Comment Status D In input signal called "register"		multiplex	Comme The kno
	gistered"		The Tra
Response Status W			Sugges Elir 56.
nal called "register" in figure 56-1 P119 Broadcom	0 to "registe L	red". # <mark>768</mark>	Propose PR Las Hov Ma
hout touching the box are confus nultipoint_tx_progress are inputs s the other inputs. is an output. I would put this at th <i>Response Status</i> W T IN PRINCIPLE. tEnable[j] to the left side of the b Pending signal to the right side of pint_transmission_in_progress s	s so I would the right side nox in the figu	suggest to put them in the of the box as output ure 56-10.	CI 56 Dolors, Comme The Still the Sugges Mo Propose PR Co
			Cl 56 Dolors, Comme Ma Ha
	Comment Status D In input signal called "register" inition it seems it should say "reg registered" Response Status W T. hal called "register" in figure 56-1 P119 Broadcom Comment Status D hout touching the box are confus multipoint_tx_progress are inputs is the other inputs. is an output. I would put this at the Response Status W T IN PRINCIPLE. tEnable[j] to the left side of the b Pending signal to the right side of	Comment Status D an input signal called "register" inition it seems it should say "registered" registered" Response Status W T. hal called "register" in figure 56-10 to "registered" P119 L Broadcom Comment Status D hout touching the box are confusing. multipoint_tx_progress are inputs so I would is the other inputs. is an output. I would put this at the right side Response Status W T IN PRINCIPLE. tEnable[j] to the left side of the box in the figure Pending signal to the right side of the box. pending signal to the right side of the box.	Comment Status D multiplex an input signal called "register" inition it seems it should say "registered" tregistered" Response Status W T. hal called "register" in figure 56-10 to "registered". P119 L Broadcom Comment Status D multiplex hout touching the box are confusing. multipoint_tx_progress are inputs so I would suggest to put them in the is the other inputs. is an output. I would put this at the right side of the box as output Response Status W T IN PRINCIPLE. tenable[j] to the left side of the box in the figure 56-10. Pending signal to the right side of the box. point_transmission_in_progress signal from the figure 56-10 since it is

	SC		P1	-	L	# 766
Dolors, Sa	lla		Broad	lcom		
Comment		TR	Comment Status	_		multipl
The la know.		itrol signal	is a global variable	that the	parser/multiplexe	r does not need to
			gs to the Multiplexing e to know if it can tra		, and the parser (uses the
Suggestee	dRemed	ly				
Elimin 56.2.2		er control	signal in all section 2	2.4.1 inc	luding the figures	s and move it to section
Proposed	Respor	ise	Response Status	w		
-		REJECT.				
Howe [.] Make	ver, the two sep	laser cont parate stat	by Gate processing b trol is not needed in e diagrams for OLT rom OLT state diagra	OLT, bu and ONI	t it is needed in C	
C/ 56	SC		P1	19	L 47	# 769
Dolors, Sa	la		Broad	dcom		
the m Suggestee	ultiple c dRemed	opies if the <i>ly</i>	ere is one per MAC.		confusion on mis	smatch of updates of
the most the most the most the most the second s	ultiple c dRemed	opies if the <i>ly</i>			confusion on mis	smatch of updates of
the m Suggestee Move Proposed PROF	ultiple c dRemec local tin Resport	opies if the dy ne from th	ere is one per MAC. is section to section Response Status	56.2.2	confusion on mis	smatch of updates of
the m Suggestee Move Proposed PROF	ultiple c dRemec local tin Resport	opies if the dy ne from th nse ACCEPT.	ere is one per MAC. is section to section Response Status	56.2.2 W	confusion on mis	smatch of updates of
the mi Suggested Move Proposed PROF Comm Cl 56	ultiple c dRemec local tin Respor POSED nent is T	opies if the dy ne from th nse ACCEPT.	ere is one per MAC. is section to section <i>Response Status</i> FR	56.2.2 W		
the mi Suggester Move Proposed PROF Comm Cl 56 Dolors, Sa	ultiple c dRemec local tin Respor POSED hent is T SC ala	opies if the dy ne from th nse ACCEPT.	ere is one per MAC. is section to section <i>Response Status</i> FR	56.2.2 W 20 dcom		# 770
the mi Suggester Move Proposed PROF Comm Cl 56 Dolors, Sa Comment	ultiple c dRemec local tin Respor POSED hent is T SC ala Type	opies if the dy ne from th ase ACCEPT. Γ and not ⁻ TR	ere is one per MAC. is section to section <i>Response Status</i> TR P1 Broad <i>Comment Status</i>	56.2.2 W 20 dcom D	L1	# <mark>770</mark> gene
the mi Suggester Move Proposed PROF Comm Cl 56 Dolors, Sa Comment Maste Havin	ultiple c dRemec local tin Respor POSED nent is T SC ala Type er is a gl g more	opies if the dy ne from th ase ACCEPT. Γ and not T TR obal varial than one o	ere is one per MAC. is section to section <i>Response Status</i> IR <i>P1</i> Broad <i>Comment Status</i> ble. It should be mov	56.2.2 W 20 dcom D ved to M	L1	# <mark>770</mark> gener
the mi Suggester Move Proposed PROF Comm Cl 56 Dolors, Sa Comment Master Havin potent	ultiple c dRemec local tin Respor POSED hent is T SC ala Type r is a gl g more tially ha	opies if the dy ne from th nse ACCEPT. Γ and not Γ TR obal varial than one of ve it different	ere is one per MAC. is section to section <i>Response Status</i> IR <i>P1</i> Broad <i>Comment Status</i> ble. It should be mov	56.2.2 W 20 dcom D ved to M	L1	# <mark>770</mark> gener
the mi Suggester Move Proposed PROF Comm Cl 56 Dolors, Sa Comment Master Havin potent Suggester	ultiple c dRemec local tin Respor POSED hent is 1 SC ala Type er is a gl g more tially hav dRemec	opies if the dy ne from th nse ACCEPT. Γ and not T TR obal variat than one of ve it different dy	ere is one per MAC. is section to section <i>Response Status</i> FR <i>P1</i> Broad <i>Comment Status</i> ble. It should be mov can create confusion ently.	56.2.2 W 20 dcom D ved to M on erro	L1	# <mark>770</mark> gener
the mi Suggested Move Proposed PROF Comm Cl 56 Dolors, Sa Comment Maste Havin potent Suggested	ultiple c dRemec local tin Respor POSED hent is T SC ala Type r is a gl g more tially had dRemec Master	opies if the dy ne from th nse ACCEPT. Γ and not □ TR obal varial than one of ve it different dy from this s	ere is one per MAC. is section to section <i>Response Status</i> IR <i>P1</i> Broad <i>Comment Status</i> ble. It should be mov	56.2.2 W 20 dcom D ved to M on erro .2.2	L1	# <mark>770</mark> gener

C/ 56 SC Dolors, Sala	P 120 Broadcom	L 29	# 771	<i>Cl</i> 56 Dolors, Sa	SC la	P 121 Broadcom	L	# 775
Comment Type T	Comment Status D		multiplex	Comment	Type TR	Comment Status D		general
	ess variable is not needed.		ect that the transmission	Figure	56-11 state ser	d OMP frame sets the time st	amp but doesn't	uses it
is done is by the signal ret	turned by the MAC transmit	done.		Suggested	IRemedy			
If there is a TransmitEnab this indication of the MAC	le means there is a transmi	ssion in progres	ss. And it finishes by		function to time amp(msdu, loca	stamp the Msdu: II_time)		
In figure 56-11 the transm	ission in progress is set but	t not used. It see	ems it can be eliminated	the de	finition is:			
SuggestedRemedy				timest	amp(msdu, loca	l time){		
eliminate the variable					lu[1n]=local_ti	_ ,:		
Proposed Response	Response Status W			}				
finishes the transmission I	nust have a way of determin before it enables other insta	ance for the tran	smission.	-	Response OSED ACCEP ⁻ lent is T and no			
	1 in Annex31B, PAUSE ope in_progress signal before it			C/ 56	SC	P125	L16	# 779
				Dolors, Sa	la	Broadcom		
C/ 56 SC Dolors, Sala	P 120 Broadcom	L 34	# 772	Comment	Type TR	Comment Status D		general
Comment Type E	Comment Status D		multiplex	the ON interfa		rror) seems to be a managem	ent alarm variab	le instead of a service
Multipoint_transmission_p	progress is not used in this b	olock		Suggested	IRemedy			
SuggestedRemedy				Make	this a variable a	nd make the communication	to the client throu	igh management
eliminate it				Proposed	Response	Response Status W		
Proposed Response PROPOSED ACCEPT. See #771	Response Status W			-	OSED ACCEP			
				C/ 56	SC	P 128	L 2	# 781
CI 56 SC	P 121 Broadcom	L	# 774	Dolors, Sa Comment		Broadcom Comment Status D		aeneral
Dolors, Sala	Dioaucom			0000000	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
,	Comment Status D		multiplex	this de	finitions still ne	ed to be modified to avoid the	need of more op	codes as agreed on.
Fig 56-11 should only dea				Suggested	IRemedy			codes as agreed on.
Comment Type TR Fig 56-11 should only dea describes the transmission	Comment Status D al with TransmitEnable inste			Suggested Please	<i>IRemedy</i> add editor's co	omment indicating pending to		codes as agreed on.
Comment Type TR Fig 56-11 should only dea describes the transmission SuggestedRemedy	Comment Status D al with TransmitEnable inste	face is enabled.		Suggested Please Proposed	IRemedy e add editor's co Response	omment indicating pending to Response Status W		codes as agreed on.
Comment Type TR Fig 56-11 should only dea describes the transmission SuggestedRemedy	Comment Status D al with TransmitEnable inste n of a frame when the interf and gated and all connectin	face is enabled.		Suggested Please Proposed PROP	<i>IRemedy</i> add editor's co	omment indicating pending to Response Status W		codes as agreed on.
Comment Type TR Fig 56-11 should only dea describes the transmission SuggestedRemedy Eliminate states Laser on Connect wait and signal s	Comment Status D al with TransmitEnable inste n of a frame when the interf and gated and all connectin	face is enabled. ng arrows.		Suggested Please Proposed PROP	IRemedy e add editor's co Response OSED ACCEP	omment indicating pending to Response Status W		codes as agreed on.
Comment Type TR Fig 56-11 should only dea describes the transmission SuggestedRemedy Eliminate states Laser on Connect wait and signal s (MA_DATA.request or MA	Comment Status D al with TransmitEnable inste n of a frame when the interf and gated and all connectir	face is enabled. ng arrows.		Suggested Please Proposed PROP	IRemedy e add editor's co Response OSED ACCEP	omment indicating pending to Response Status W		codes as agreed on.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 53 of 190 C/ 56

SC

C/ 56	SC	P 129	L 8	# 782	C/ 56
Dolors, Sa	ala	Broadcom			Dolors, S
Still it	can be access	Comment Status D lobal variable. It should be move ted by all MACs. But this avoids i there is one per MAC.		•	Commer Thei perio is se
	dRemedy				The
Move	local time from	n this section to section 56.2.2			Suggest whe
PROF	Response POSED ACCER ment T and not				Propose PRC
Cl 56 Dolors, Sa	SC ala	P 132 Broadcom	L 50	# 785	The REG and
Comment	t Type TR	Comment Status D		discovery	CI 56
		n to the MAC client for every me these indications if the ONU is r			OGURA
mess In ger	ages. neral, the entire	e discovery process has too man	y new message	es. But since the state	Commer "A re there
0	ams still need t t an example.	o be split I will not describe all be	ecause it will ch	lange any one. This one	desc
00	dRemedy hate this MAC_	control indicate			Suggest @lt of re
•	Response	Response Status W			@Ci @Th

PROPOSED ACCEPT IN PRINCIPLE. Upon break-up of diagrams, editor will determine which message indicators are necessary.

Cl 56 Dolors, S	SC Sala			P 139 Broadcom	L10	# 786
	e is no re odicity of N	•		of REPORT	0	rep e requirement is the everytime a MPCP frame
Ther	efore, this	s means o	ption 2 in this e	editor's is m	ore appropriate	
00	edRemed	-	e modified inco	orporate opt	tion 2	
PRO The REG	mechanis	ACCEPT I sm suppor REQ/REGI		operation.		ate does not include for periodic generation
C/ 56	SC			P 149	L 32	# 720
OGURA,	Yasuo			NTT		
Commer	nt Type	Е	Comment S	tatus D		rep
there	e should b		paragragh an	•	a part of "d) Nun e)" should be the	nber of requests." so that next
Suggeste	edRemed	ly				
of re @Cu	quests fie	elds".	igraph from "d) hould be delete		requests." to "a	s specified in the Numbe
w II	ne next ite	emize "f)" s	should be chan		itemize "e)".	

C/ 56	SC ???	P???	L???	# 911
Fom Murphy		Infineon		
Comment Typ	e TR	Comment Status D		gai
true if fast	receiver time	ceiver designs require a hard- es are to be implemented, nov liscussion of this topic in the M	w or in the future.	
SuggestedRe	medy			
Provision	for a receive	r reset signal in the MPCP		
Currently	0 0	JSSION anism at OLT does not hold m nt would make OLT similar to		v requires remembrinc
Furthermo		a grant table. I require state of RTT for such	table for proper	compensation.
Furthermo	00	a grant table. d require state of RTT for such P108		
Furthermo <i>CI</i> 56 Dolors, Sala	SC 1.1	a grant table. d require state of RTT for such P108 Broadcom	table for proper	compensation. # 749
Furthermo Cl 56 Dolors, Sala Comment Typ Since agr	SC 1.1 SC TR eement was	a grant table. d require state of RTT for such P108	L table for proper of <i>L</i> 39	compensation. # 749 generation
Furthermo Cl 56 Dolors, Sala Comment Typ Since agr and client	ore this would SC 1.1 De TR eement was s only are all	a grant table. d require state of RTT for such P108 Broadcom Comment Status D reached that only one LLID is	L table for proper of <i>L</i> 39	compensation. # 749 generation
Furthermo Cl 56 Dolors, Sala Comment Typ Since agr and client SuggestedRe	ore this would SC 1.1 De TR eement was s only are all	a grant table. d require state of RTT for such P108 Broadcom Comment Status D reached that only one LLID is	L table for proper of <i>L</i> 39	compensation. # 749 generation
Furthermo Cl 56 Dolors, Sala Comment Typ Since agr and client SuggestedRe replace so	ore this would SC 1.1 be TR eement was s only are all <i>medy</i> entence by:	a grant table. d require state of RTT for such P108 Broadcom Comment Status D reached that only one LLID is	L 39 L 39 used per ONU, the specific that t	compensation. # 749 generation
Furthermo Cl 56 Dolors, Sala Comment Typ Since agr and client SuggestedRe replace so	ore this would SC 1.1 SC 1.1 eement was s only are all <i>medy</i> entence by: f multiple MA	a grant table. d require state of RTT for such P108 Broadcom Comment Status D reached that only one LLID is owed at OLT. Hence it should	L 39 L 39 used per ONU, the specific that t	compensation. # 749 generation

Cl 56	SC 1.1	P 108	L 40	#	750
Dolors, Sala		Broadcom			

layering

Comment Type TR Comment Status D

There is no need for dynamic binding between MACs and ports. This is implementation dependent and can be "set" at development time.

A particular implementation supports a fixed number of MACs, and no more.

Something different is the assignment of an LLID number to these MACs.

I think this sentence tries to say: Support of dynamic binding of LLID number to MACs. But I think this is an implementation issue and there is no need to say it.

SuggestedRemedy

Eliminate sentence

Proposed Response Response Status W PROPOSED ACCEPT.

CI 56 S	C 1.2	P109	L	# 748
Dolors, Sala		Broadcom		
Comment Type	Е	Comment Status D		layering

Figure 56.1 shows the general layer stack with the MAC control layer and indicating that it is an optional layer. Since this figure represents just the layering of the PON system, I think it will be more useful to indicate the layering of PON and hence call this Multipoint MAC control and eliminate the optional comment.

SuggestedRemedy

Add Multipoint in the Mac control layer box Eliminate the word optional in the same box

Proposed Response Response Status W PROPOSED ACCEPT.

Dolors, Sa	SC 1.2 Ila	P 110 Broadcom	L	# 751	<i>CI</i> 56 Dolors, Sala	SC 113	P2 Broadco	ım.	# 753
Comment	Type TR	Comment Status D		layering	Comment Ty	be TR	Comment Status	I	multiplex
	e 56-2 needs exp ed and how many	elanation. We have to give gui / are needed.	delines of why th	ese multiple MACs are		-	rames without MAC cor		over a MAC control client
The su	uggested text be	not all the text made it to the low was submitted to the edit as not incorporated in the dra	or.	ded	frame.		on of MPCP, I suggest t		
Suggested	-						rol client frames.	o give manipicxing	
	ne following text:				SuggestedR	emedy			
	C C				Change	sentence in lin	ne 2-3		
a singl	le physical layer.	56-2, the layered system may . A different MAC instance is IAC instances offer a Point-to	used at the OLT	to communicate with an	"Frames	generated	MA_DATA primitive."		
OLT a This in	ONU. The individual MAC instances offer a Point-to-point emulation service between the OLT and the ONU. An additional MAC is instanciated to communicate to all ONUs at once. This instance takes maximum advantage of the broadcast nature of the downstream					ragraph:			
This M instand networ	This instance takes maximum advantage of the broadcast nature of the downstream channel by sending a single copy of a frame and this frame is being received by all ONUs. This MAC instance is referred to as Single Copy Broadcast (SCB). The total number of MAC instances and clients an OLT supports is N+1 where N is the total number of ONUs in the network. The ONU only requires one MAC instance since frame filtering operations are done at the				Frames generated in the Multiplexing MAC control without client intervention (i.e. empty reports) are given priority over MAC control client frames (i.e. Pause), this is, the MAC control initiated frame must be the next frame to be transmitted after completing the transmission currently in progress, if any. For the transmission of this frame, the Multiplexir control instructs the multiplexer to enable the corresponding MAC interface but not the Client interface. Therefore, no client interface is enabled.				
RS lay	er before reachi	ing the MAC. Therefore, MAC			Proposed Response Response Status W				
agnost	tic at the ONU.				•	SED REJECT.			
agnostic at the ONU. Editor's note: To be removed prior to publication. The ONU layer specification is pending on				cification is pending on	MAC Co		es not generate frames	the Client activate	es primitives inside MAC
		group of defining one LLID pe				00 0			
confirn	mation from the g	group of defining one LLID pe <i>Response Status</i> W				SC 2	P112	L	# 150
confirn Proposed I PROP	mation from the <u>(</u> <i>Response</i> POSED ACCEPT	Response Status W			CI 56 Kramer, Gler		P 112 Teknov		# 150
confirn Proposed I PROP	mation from the <u>(</u> <i>Response</i> POSED ACCEPT	Response Status W	added.					IS	
confirn Proposed I PROP	mation from the <u>(</u> <i>Response</i> POSED ACCEPT	Response Status W	added.		Kramer, Gler Comment Ty Through	be E but the text "M	Teknov Comment Status	IS	
confirn Proposed I PROP	mation from the <u>(</u> <i>Response</i> POSED ACCEPT	Response Status W	added.		Kramer, Gler Comment Ty Through	be E but the text "M htrol" is used i	Teknovi <i>Comment Status</i> I lultiplexing MAC Contro	IS	multiple>
confirn Proposed I PROP	mation from the <u>(</u> <i>Response</i> POSED ACCEPT	Response Status W	added.		Kramer, Gler Comment Ty Through MAC Co SuggestedR Change	be E but the text "M htrol" is used i emedy	Teknove Comment Status I lultiplexing MAC Contro nterchangeably.	ıs ", "Multi-Point MA	multiplex

Cl 56 SC 2 Dolors, Sala	P 112 Broadcom	L18	# 758	<i>Cl</i> 56 Khansari,	SC 2 Masoud	P 115 Centillium Cor	L 32 mmunicat	# 320
Comment Type TR This OMP is in the MAC instance spec	Comment Status D MAC instance. Therefore it can p ific.	erform the MPC	<i>multiplex</i> P operations that are	Comment Select State		Comment Status D Id reset transmitPending[j] befor	e passing the ir	<i>multiplex</i> ndex value to Enable
C C	or the following one: sible for handling the MPCP MAC	dependent ope	erations		mitPending[j] v machine. Make	rariable is defined but not used in the require changes in state dia		
Proposed Response PROPOSED ACCE Change text to read MAC."	Response Status W PT IN PRINCIPLE. I "This block is reponsible for han	dling the MPCP	in the context of the	PROF	Response POSED REJEC mitPending is	Response Status W CT. reset in state TRANSMIT READ	Y in Figure 56-1	1
Cl 56 SC 2 Dolors, Sala	P 112 Broadcom	L 4	# 759	<i>Cl</i> 56 Dolors, Sa	SC 2.1 Ila	P 113 Broadcom	L 21	# 756
defined here. SuggestedRemedy Add the following se	Comment Status D ontrol operations. Since this is the entence at the end of this paragra erforms the MPCP control operat	iph:		new fi Suggested chang Proposed PROF	onsistency with eld but it is the dRemedy			
Proposed Response PROPOSED ACCE Comment is T and				<i>Cl</i> 56 Dolors, Sa	SC 2.1 Ila	P113 Broadcom	L 29	# 757
C/ 56 SC 2 Dolors, Sala	P112 Broadcom	L 51	# 752	Comment Not al		Comment Status D frames are generated by a previ	ous MA_Contro	general I.request.
Comment Type T line 51 and 52 use	Comment Status D the word assertion instead of ena		<i>multiplex</i> ed if it is not allowed.	sync r Suggested	equirements	ort that doesn't contain a reques	t but it has to be	e sent to meet timing
SuggestedRemedy Replace "assertion" Proposed Response PROPOSED ACCE	¹ by "enabling" <i>Response Status</i> W PT IN PRINCIPLE. led, however signals are asserted was activated".			or as a Proposed PROF		IPCP event that generates a fra Response Status W PT.	me	

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 V/unsatisfied Z/withdrawn
 C/ 56 SC 2.1

				Fouz.Sali L	
C/ 56 Dolors, S	SC 2.1 ala	P 113 Broadcom	L 50	# 760	C/ 56 Dolors, Sal
Commen	t Type TR	Comment Status D		multiplex	Comment
		been used so far. For clarity it s stency on the description so far			This se multiple
Suggeste	edRemedy				becaus
Modi	fy line 50 from : "i	t enables any frames"			in fact
to the	e following:				Suggested Move o
	ables the transmi mit any frame."	ssion of only one MAC interfac	e such that all o	other interfaces cannot	Proposed F
•	d Response POSED ACCEPT	Response Status W			PROP Multiple Many c
C/ 56	SC 2.1	P113	L 6	# 755	counte Fix the
Dolors, S	ala	Broadcom			In OLT
Commen	t Type TR	Comment Status D		multiplex	CI 56
		tion of the interfaces, the proce	ess to guarante	e one frame at a time	Dolors, Sal
	multiple interfaces	s is needed.			Comment
00	edRemedy	instand as a set a supervised in th	ia nana (at lina	c)	The sh
Add	the text between t	irst and second paragraph in th	his page (at line	6)	Suggested
		ne in MACi enables the Receiv interface will be enabled at an			Replac
PHY	interface. If the re	ceived frame is a data frame the bled. If it is a control frame the	he MA_DATA.ir	ndication interface of	The pu clients
The	forwarding of the r	eceiving frame from the enable	ed MAC interfac	ce to the enabled Client	Proposed P

interface follows the normal procedures of the MAC control specification. Data frames are directly passed to the enable client interface. Control frames are processed by the MAC control and the corresponding control function is performed before passing the indication to the client.

Response Status W Proposed Response

PROPOSED REJECT.

There is no contention in the receive path, contention only exists in transmit path.

<i>Cl</i> 56 Dolors, Sa	SC 2.2 la		P 113 Broadcom	L	# 773
multip becau	ection shou lexing cont se it fits in	uld describe the me	n interface if the f e grant.	rame can be	multiplex ation. In other words the completely transmitted
Suggested	IRemedy	ation (section 3.6) in		.0	
Multip Many counte Fix the	OSED RE exing diffe comments er productive overlab b	JECT. erent MACs at OLT i so far request sepa	arate descriptions, ion and multiplexi	, unifying the ng control in	se different blocks is ONU.
<i>CI</i> 56 Dolors, Sa	SC 2.2		P 113 Broadcom	L 53	# 761
Comment	Туре Т	Comment PHY is not only for	t Status D	shares a PH	<i>multiplex</i> Y with P2PE.
Suggested Replae		tence of this paragr	aph with the follow	wing:	

purpose of the multiplexing control is to avoid collision of frames from different MAC ts at the RS layer and below when multiple clients share a single PHY.

Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3ah D	raft 1.0 Co	omment	S			
C/ 56 SC 2.2 Dolors, Sala	P 114 Broadcom	L	# 762	C/ 56 Kramer, (SC : Glen	3.3	P 122 Teknovus	L 46	# 152
Comment Type TR The transmit enable ar data and one per contr	Comment Status D nd transmit in progress variable rol.	es must be duplic	<i>multiplex</i> ated to have one per	Commen OMP Suggeste	Parser/N	•	Comment Status D r is not a sublayer but a functi	onal block.	layering
	ol does not have enough inforr ds to know if it is a MAC contro two ways.		there is a frame	Proposed PRO	l Respon POSED /	se ACCEPT.	unctional block" Response Status W		
ready, the control fram	e FrameType which indicates v e will be indicated following th	e MAC control pr	iority.	This <i>CI</i> 56 Dolors, S	SC :		done in this line and in all refe P Broadcom	erences of this	# 789
 duplicate the function and have one for data and one for control for each instance. Since both are just flags anyway. Option 2 gives more information. So I would recommend to add a signal for each interface. 							Comment Status D used on the decision flow of a client. Information can be pass		
SuggestedRemedy Have a TransmitPendi	ngData and a TransmitPendin I priority, the TransmitEnable d			But if S <i>uggeste</i>	it is invo dRemed	lved in th y	e operation decision it must d	efine.	·
Proposed Response PROPOSED REJECT. The transmitPending is	Response Status W	nsmit any frame.		-	oorarily it is.	should be	e add an editor's note. And ev Response Status W		
that is implementation				Defin of-sc	ition of ca ope' infor	apability	IN PRINCIPLE. /ector left intentionaly vague t uring registration. text.	o allow exchan	ge of 'out-of-band & out-
Dolors, Sala Comment Type TR	Broadcom Comment Status D		multiplex	<i>CI</i> 56 Dolors, S	SC : ala	3.4	P127 Broadcom	L	# 780
	ed the multipoint_transmission ess sides. The multipoint versi				concept "		Comment Status D ons" has a meaning of stations ces behind ONUs.	s behind the Of	<i>discover</i> y NU. MPCP does not deal
SuggestedRemedy	vo variables in the block.				0				
Proposed Response PROPOSED ACCEPT	Response Status W			Suggeste	edRemed		entire clause "end-stations" sh r "ONU"	iouid be "ONUs	5
	ess[j] should be the input signa ission_in_progress is also inpu ess[1n]		by	-	POSED /	ACCEPT.	Response Status W		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 59 of 190 C/ 56

Editor will make appropriate changes.

SC 3.4

C/ 56 SC 3.4.1 Dolors, Sala	P 131 Broadcom	L 48	# 784	<i>Cl</i> 56 Kramer, Gler	SC 3.4.1.6	P 134 Teknovus	L	# 156
, , ,	Comment Status D g that the contention resolution in the discovery section.	was still under	<i>discovery</i> study was supposed to	mechani	, ry Processing sms: random	Comment Status X Slave State Diagram I (Fig. 5 delay and binary exponential bination always results in perf	backoff. Simul	lation-based analysis
This note should be m passed. SuggestedRemedy	aintained until a motion decidir	ng on the conter	ntion resolution is	SuggestedR	emedy	e posted on the reflector. state from the Discovery Proc	assing Slave S	State Diagram I
Add an editor note: the contention resoluti Proposed Response PROPOSED ACCEPT Editor will make appro	Response Status W			Proposed Re PROPO Pending	esponse SED ACCEP1 group decisic	Response Status W IN PRINCIPLE. In on which method to use, ec text required as well. P	U	5
Cl 56 SC 3.4.1.4 Dolors, Sala Comment Type TR there is no need than no needed of an array SuggestedRemedy	P131 Broadcom Comment Status D one timer per ONU. Since this of SA.	L 39 is already in a M	# 783 <i>discovery</i> IAC instance, there is	Multiple> SuggestedRe	e processing is king Control bl	Broadcom Comment Status D s a global operation and not N ock section 2.2 o section 2.2	IAC specific. If	gate t should be moved to
Elimanate [SA] referen Proposed Response PROPOSED REJECT Section is dealing with	Response Status W an OLT which has need for m ed with an ONU attemptimng to		s occurs prior to		, SED REJECT	Response Status W		

SC 3.6

C/ 56	SC 4	P152	L	# 325	
Khansari, Ma	soud	Centillium Co	Centillium Communicat		
Comment Typ	pe T	Comment Status X		discovery	
Destaurt	and an India			and the standard standard standard	

Destruct option in the flag field of REGISTER_REQ MPCPDU is not sufficiently explained. For example, it is not clear if OLT has to acknowledge this message and if yes how.

Similarly Forced registeration option in the flag field of REGISTER MPCPDU. Is it necessary for ONU to acknowledge this? What if ONU never receives this message? Does OLT retransmit another REGISTER message?

SuggestedRemedy

Verify all the corner cases in the case of Destruct and Forced registeration options and include them in the state diagrams of Figure 56-16 and 56-17.

Figures 5-16, 5-17, 5-18 regarding the master's and slave's discovery procedure requires a major over-hual. At moment, it is not clear that we have covered all the corner cases and the presentation of these diagrams make this even more difficult.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor will make appropriate changes to text and diagrams to clarify.

For the record, deregistration does not rewuire acknowledgement, as the OLT unilaterally stops gating the LLID following deregistration. In case messgae is not received, action through error state due to lack of gates will reset the ONU.

C/ 56	SC 4.2	P146	L	#	154
Kramer, Gle	en	Teknovus			

Comment Type T

Comment Status D

n

gate

The standard currently presents an inconsistent view on the MPCP. On the one hand STF made sure that scheduling algorithm remain vendor-specific. On the other hand formats of GATE and REPORT messages are fixed and do not allow any algorithm-specific information to be passed between scheduler (OLT) and consumers (ONUs). Unavoidably, once and again new proposals would appear calling for custom fields to be included in the message format.

That inconsistency must be resolved.

SuggestedRemedy

I see two options.

1. Allow custom fields to be included in the message format. The fields would have Type-Length-Value format. Type should be unique (use vendor ID?)

2. Allow OLT and ONUs by mutual agreement to switch to custom message format. This option would require a "format ID" or "rev ID" field in the message.

(This is not a specific solution. Provided that the STF has a chance to discuss this issue and identify better approach, the commenter may/will withdraw this comment and resubmit a new one with only one solution)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See 635

We are not dealing with proprietary protocols, rather with a standard protocol. Thus option 2 as described is not relevant to this group.

In order to allow custom fields to be exchanged in a standadized fashion, a TLV mechanism is to be defined.

Mechanism requires:

1) Vendor identification during discovery sequence (TBD)

2) 1 byte type/length field to be interpreted as:

4 most significant bits - type

4 least significant bits - length

type value definitions:

0 - no field present, always paired with 0 length

0-7 reserved

63 extend, first byte of payload is extension of type (to values 16 - 271)

8 - 14 to be interpreted according to vendor

15 extend, first byte of payload is extension of type (to values 272 - 527) to be interpreted according to vendor

			P802.3a	h Draft 1.0 Comments
C/ 56 SC 4.2 Kramer, Glen	P 146 Teknovus	L	# 153	C/ 56 SC 4.5 Dolors, Sala
	Comment Status X		aat	
	s GATE and REPORT messa eue lengths, so should the GA			The MAC should not be destruction The mac still exists. This simple
	ING VIOLATION IN DOING S	O!		Why is this destruct indication helpful to change the name de functionality.
	mechanism: ntrol Client) in OLT creates a tal length TOTAL_LENGTH	GATE messag	e with 8 slot lengths -	SuggestedRemedy Eliminate the sentence "subse
_	NGTH[0] ++ LENGTH[7]			Proposed Response Res PROPOSED ACCEPT IN PRI
	ATE. MPCP will read the TOT GATE message to MAC Contro		and program aggregated	"Destroy" terminology to be ch
3. MAC Control Client by LENGTH[i].	makes sure (optionaly) that ea	ach queue i tra	nsmits what is specified	Diab, Wael William
As one can see, queue	e assignemnt and selection is sport for this information, simi			Comment Type TR Co. There is no mention on the co inherent assumption that the o to be explicitly stated in the dr
What if it is not done? knows exactly what ON queueing, etc.). Or else OLT grants a proper sl	Then either ONU's algorithm s NU will do (i.e, priority queuein e both the OLT and ONU shou ot to the ONU, and (b) ONU d	g, wighted fair Ild be SLA-awa	queueing, deficit-based are to make sure that (a)	SuggestedRemedy Please add a timing constrain through the MAC and Phy. Fo trnsmition.
SLAs.				Proposed Response Res
2	include slot_lengths for up to	·	the total length.	ACCEPT IN PRINCIPLE. Transmission/reception delay Specification needs to constra D1.0 #672
	be submitted to the STF edito	ır.		
MAC layer opens and o QoS. Negotiation of SL Gating function is simp Baseline. Proposals of incorpora luckily we are over the Further, packing of mu	between GATE and REPORT closes transmitter, it is respon A parameters are clearly outs le and consistant with Baselir ting QoS into the MAC layer h	sibility of highe ide the scope le and all discu ave caused gr	of this standard. issions leading to eat pain in the past,	Cl 56 SC 56 Tom Mathey Comment Type T Con The Optical Multi-Point clause SuggestedRemedy Add. See existing 802.3 topol splices, splice location vs link parameters, min/max distance criteria.
				Proposed Response Res PROPOSED ACCEPT IN PRI

comment Status D discovery troyed when an LLID is de-registered. It just becomes inactive. plies the description and does not change functionality. on defined? this seems to be a unregister operation. It would be

P153

Broadcom

L6

788

destruct for unregister or something similar to describe the

sequently the MAC is destroyed.

esponse Status W

RINCIPLE.

changed to "Deallocated" terminology.

CI 56	SC 56	Р	L	# 99000
Diab, Wael W	/illiam	Cisco Systems		
Comment Ty	be TR	Comment Status A		D1.0

constraint for the local time stamping. I believe that there is an delay throuh the MAC & Phy is relatively constant. This needs draft.

int for the time stamping mechanism to eliminate any variability For instance, a min and max time between processing to

esponse Status U

y can not be distinguished from propagation delay. rain delay variations not necesseraly delay.

C/ 56	SC 56	P107	L1	# 9	918
Tom Mathey		Independent		I	

comment Status D

general

se is completely missing a system level topology clause.

ology clauses for guidance. Include such items as number of k length, db losses, start-up and turn-off limitations, test ces between splices and/or groups of splices, etc. Include test

esponse Status W

PROPOSED ACCEPT IN PRINCIPLE. Need volunteer to draft topology sub clause

Page 62 of 190 C/ 56 SC 56

			1 00210411 0	
C/ 56 SC 56.1	P111	L 53	# 700	C/ 56
OGURA, Yasuo	NTT			Bemme
Comment Type T	Comment Status D		layering	Comme
It is hard for me to u	understand how OLT and ONU p	process a Discov	ery, Gate and Report.	Ple
SuggestedRemedy				in c
	ne "Sequence chart"s which is w		e document.	
• •	a new chapter:"56.1.5 Sequence	e Chart".		Hov
Proposed Response PROPOSED ACCE				doe
	protocol functionality is needed	at beginning.		Sugges
Please supply text i	f you have it.			Per
CI 56 SC 56.1 8	32 P	L	# 994	Rep
Ajung Kim	Samsung Ele	ec		"b)
Comment Type T	Comment Status D		layering	with
	on and misinterpretations arise f	rom explaining tw	vo different systems	"b)
	e universal model and diagram. pjective b) in 56.1.1 applies only	to OI Ts. and it y	vas neither an objective.	Propos
nor in draft 1.0.				PR
SuggestedRemedy				lt w and
	block diagrams for ONU and OL			0
	supposed to be 1LLID/ONU as a oplicable only to ONUs, as OLT I			Su And
LaserControl.				
 The parts referring can apply only to O 	g to 'multiple clients and underlyi	ing MACs' in Mul	iplexing MAC control	<i>CI</i> 56 Bemme
Proposed Response	Response Status W			
PROPOSED ACCE				Comme ON
				-
				Sugges
				Ado
				Propose
				PR

Bemmel, Vincent		Allo	otic			
Comment Type	т	Comment Statu	s D			layering
"b) Sup	port mul	.0 comment #515. It Itiple LLID per physic ngle LLID per ONU.			e the objective:	
/ /	port mul	t: Itiple MAC and MAC e desired objective.			he # LLIDs per C	DNU.
SuggestedRemed Per the Draft	,	ew, please modify the	text to	reflect a single	e LLID per ONU.	
Replace "b) Support m	ultiple N	IAC and MAC Clients	5"			

P108

L 39

598

ith:

) support a single LLID per ONU"

Response Status W sed Response

SC 56.1.1

ROPOSED ACCEPT IN PRINCIPLE. was agreed to support a single LLID per ONU but there is still the need of a multiple MACs nd MAC clients at the OLT

uggest to modify b) to "Support multiple MAC and MAC Clients at the OLT" nd add "support a single LLID per ONU" as a new item in the list

Cl 56		56.1.2	P11	-	L 4	# 599	
Bemmel, Vir	icent		Allopti	C			
Comment Ty ONU mo		T missing	Comment Status	D		la	yering
SuggestedR	,		m diagram				

dd ONU Layered system diagram

sed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The ONU layer model is the same as OLT. What varies is the number of MACs in the ONU. And this is just a special case of the picture given. However, it should explicitly say that the ONU only require one MAC.

This comments is also addressed in comment

Suggestion: Add text. Propose use text recommended in comment 751.

Р C/ 56 SC 56.1.3 L # 936 Jaeyeon Song Samsung Comment Type **T** Comment Status D multiplex Figure 56-3, the interface of MAC Control Client and Control multiplexeris not clear. It is related to Control multiplexer state diagram(56.2.4.1), too. SuggestedRemedy Clarify the interface and show in the diagram Proposed Response Response Status W PROPOSED ACCEPT. C/ 56 SC 56.1.3 P111 L30 # 950 ETRI Chan Kim Comment Type **T** Comment Status D lavering Most of the important functions in generating grants, or using grants is all performed aggregate for all links. This holds true in OLT and ONU (when ONU has multiple MAC instances) So OMP should better be represented as a common block for all instantiated emulated links. not many instantiation. SuggestedRemedv represent the functional block diagram of optical multipoint as a single entity with many instantiated service interfaces up and down. Proposed Response Response Status W PROPOSED REJECT. Having a single istance for each MAC simplifies the document structure. C/ 56 SC 56.1.3 P111 L4 # 597 Bemmel, Vincent Alloptic Comment Type **T** Comment Status D lavering It is not very clear how/whether the different functions shown in figure 56-3 apply to the OLT vs. the ONU. The behavior is different and needs to be explicitly discussed in the context of OLT vs. ONU. SuggestedRemedy Throughout Clause 56, add OLT vs. ONU clarifications whenever a function is being discussed.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Please suggest locations and text.

C/ 56	SC 56.1	.4	P1		L 45	# 392	
Brown, Be	enjamin		AMCO	<i>.</i>			
	section descr	ibes what co		e used fo	r the state mach les cleaned up a	nines. I recomme	<i>genera</i> nd
Suggeste	dRemedy						
Clean	up the state	machines a	ccording to th	ne conve	ntions cited.		
PROF	<i>Response</i> POSED ACC an you point	, EPT IN PRIN			from conventior	ns?	
CI 56	SC 56.1	.4	P1	11	L 46	# 388	
Brown, Be	enjamin		AMCO	С			
Comment "is co		<i>Con</i> loesn't make	nment Status sense	D			layering
Suggeste	•						
Proposed	dRemedy	ces of "is cor Resp	nprised of" wi		orises"		
Repla Proposed PROF CI 56	dRemedy ice all instan Response POSED ACC SC 56.2	ces of "is cor Resp	nprised of" wi bonse Status P1	W	prises" L	# <u>606</u>	
Repla Proposed PROF Cl 56 Bemmel, V Comment Pleas	dRemedy ce all instant Response POSED ACC SC 56.2 Vincent Type T e clarify the o	ces of "is cor <i>Resp</i> EPT. <i>Con</i> operation at t	nprised of" wi conse Status P1 Allopt ament Status the ONU as w	W 12 ic D vell. E.g	L ., it is not clear fr		<i>layerin</i> at the
Repla Proposed PROF Cl 56 Bemmel, V Comment Pleas ONU Suggester Add u "At the OLT.	dRemedy ce all instant Response POSED ACC SC 56.2 Vincent Type T e clarify the of the number of dRemedy inder the par e ONU, a sin	ces of "is cor <i>Resp</i> EPT. Con operation at to of parsers/mo agraph of lin gle MAC ins , the Multiple	nprised of" wi conse Status P1 Allopt ament Status the ONU as w ux instances i e 23 the follow tance is used	W 12 ic D vell. E.g is equal f wing: I to comm	L ., it is not clear fr to one.	rom the text that c	at the

P802.3ah Draft 1.	0 Comments
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CI 56	SC 56.	2	P112	L10	# 390	C/ 56 S	C 56.2.1	Р	L	# 937
Brown, Be	njamin		AMCC			Jaeyeon Song		Samsung		
	e 1 copy of	f Multiple	Comment Status D exing MAC Control or 1 per		<i>multiplex</i> -4 makes it look like	Comment Type In Figure56		Comment Status D 56-4, Figure 56-6, 'multiplexing	MAC Control'	<i>multiplex</i> in the title.
Suggested		ie text m	akes it sound like there is '	copy per MAC.		SuggestedRem Not multiple		Control , but multipoint MAC C	Control	
Proposed PROP See th	Response OSED AC e line 22, p	CEPT IN page 112	Response Status W I PRINCIPLE. 2 " the layered system ma	ay instantiate mu	tiple MAC entities,		D ACCEPT	ontrol is proper.		
	0		g MAC Control"			CI 56 Si OGURA, Yasud	C 56.2.1	<i>P</i> 112 NTT	L 20	# 732
C/ 56 Brown, Be	SC 56.	2	<i>P</i> 112 AMCC	L14	# 391	Comment Type		Comment Status D		multiplex
Comment	Туре Е		Comment Status D		layering		iplexing Co	ntrol", there is not the mention	when multiple	
			b (by the way, the bullet nuce, or at least I can't unders		needs to be cleaned	SuggestedRem	edy			
Suggested							g algorism i	ng description. s out of scope of 802.1ah in th ne".	e case of multi	ple transmit request
Proposed PROP	Response OSED AC		Response Status W				D ACCEPT	Response Status W IN PRINCIPLE. n is implementation dependan	t, and is not sp	ecified for the case
CI 56	SC 56.	2	P112	L 6	# 389			t request happen at the same		
Brown, Be Comment	,	E	AMCC Comment Status D		layering	CI 56 Si Bemmel, Vince	C 56.2.1 nt	P 113 Alloptic	L 2	# 600
What	s a handle	er?				Comment Type	Е	Comment Status D		layering
Suggested Define		ndler is	to those of us not accuston	ned to software to	erms.	Typo: "Frames ge	enerated at	the MAC Control are given pri	ority"	
Proposed	Response		Response Status W			SuggestedRem	edy			
-		-	I PRINCIPLE.			"Frames ge	enerated at	the MAC Control Client are give	en priority"	
Repla	ce "MAC h	andlers"	by "MACs"			Proposed Resp PROPOSE		Response Status W		

C/ 56	SC 56.2.1	P113	L 20	# 393	CI 56
Brown, B	enjamin	AMCC			OGURA,
	51	Comment Status D Ild be parsed according to the	e DA as well as		Itiplex Comment In the "trans block
Add I	DA into this descri	ption			Suggeste
•	l Response POSED ACCEPT.	Response Status W			How a "trans
Cl 56 Jaeyeon	SC 56.2.2 Song	P Samsung	L	# 938	Proposed PROF Use o
Commen OMP	51	Comment Status D communicates with the Multi p	point Gating Cor		Itiplex C/ 56 Brown, Be
00	edRemedy	communicates with the Multip	lexing Control u	sing	Comment
	l Response POSED ACCEPT.	Response Status W			Suggeste Comb
<i>CI</i> 56 Sio Peng	SC 56.2.2 GOI	P114 Institute for Co	L 17 ommunic	# 900	Proposed PROF
	gure 56-6, the bloc	Comment Status D ks are Instance n and Multiple d transmitPending.	exing Control.		Itiplex Grops ate C/ 56 Brown, Be
Char		MAC Control instance n com and transmitPending[j] state		the Multiplexing Co	ontrol Comment Mixing
•	<i>Response</i> POSED REJECT.	Response Status W			Suggeste Pick t
	is just one to one r mitPending signal	mapping between each instan s.	ce and transmit	Enable /	Proposed PROF

C/ 56	SC 56.2.2	P1 ⁻	14	L17	# 73	4
OGURA, Yasu		NTT	••			
Comment Typ	e E	Comment Status	D			multiplex
				ssion_in_progress[j]" s s[n]".Because they are		
SuggestedRei	medy					
		smitEnable[j] and tra ransmission_in_prog		nission_in_progress[j]" s[n]"?	into	
	, ED ACCEPT.	Response Status es text clearer.	w			
CI 56	SC 56.2.2.1.2	P1 ⁻	15	L1	# 39	4
Brown, Benjar	nin	AMCO	2			
Comment Typ Using sep		Comment Status for Variables/Const	-	/Functions etc. can lea	n to redun	<i>general</i> dancy.
SuggestedRei Combine a		es/Constants/Function	ons e	etc. for each group of s	tate machi	nes.
	ED ACCEPT II	Response Status N PRINCIPLE. : Control Parser + C		ol Multiplexer		
C/ 56	SC 56.2.2.1.2	P1 [,]	15	L10	# 39	5
Brown, Benjar	nin	AMCO	5			
Comment Typ Mixing ON	e E I/OFF and TRI	Comment Status UE/FALSE	D			general
SuggestedRei Pick the v		iable and be consist	ent	with them		
Proposed Res PROPOSI	ponse ED ACCEPT.	Response Status	w			

C/ 56 SC 56.2.3.1.6 P95 L13 # 99001 World Wide Packets Jonathan Thatcher Comment Type TR Comment Status A D1.0 Logic needs to be completely specified. For example, to the left of the "PARSE" block there must be Length Type == MAC Control and !(subtype in (GATE, REPORT,... Better to explicitly describe the logic than use "else." SuggestedRemedy Scrub and fix all state diagrams Proposed Response Response Status U ACCEPT. Same as #174 D1.0 #697 C/ 56 Р # 939 SC 56.2.4 L Jaeyeon Song Samsung Comment Status D Comment Type E multiplex Figure 56-8 Control parser/multiplexer service interface Figure 56-10 Control parser/multiplexer service interface Control Parser and multiplexer is divided into 2 diagrams ; fig56-8, fig 56-10 SuggestedRemedy -Figure 56-8 Control parser/multiplexer service interface --> Figure 56-8 Control parser service interface -Figure 56-10 Control parser/multiplexer service interface --> Figure 56-10 Control multiplexer service interface Proposed Response Response Status W PROPOSED ACCEPT. See #894 #895 C/ 56 SC 56.2.4 P118 L33 # 903 Sio Peng GOI Institute for Communic Comment Type E Comment Status D multiplex Message from MAC Control client is MA CONTROL.request. SuggestedRemedy Given multiple MA DATA.request from MAC Client, and MA CONTROL.request from the MAC Control Client,... Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. MAC Control functions eventually perform TransmitFrame procedures, it is the intent to demonstrate that here. Better wording is sought.

C/ 56 Sio Peng G		56.2.4	P 1 ′ Institu	-	L 10 communic	# 893
Comment T	уре	E register" in	Comment Status Figure 56-10 is not	-	ent with that defi	<i>multiple</i> ned in Clause 56.2.4.1.2
SuggestedF Renam		•	gister" in Figure 56-	10 to "r	egistered"	
Proposed R PROPC See #70	DSED /	se ACCEPT.	Response Status	w		
<i>CI</i> 56 OGURA, Ya		56.2.4.1	<i>P</i> 1' NTT	19	L 24	# 741
Comment T	уре	Е	Comment Status	D		multiple
Should C/ 56	be 56.		I PRINCIPLE.		L	# 940
Jaeyeon So		50.2.4.1.0	, Sams	ung	L	# <u>340</u>
words, meanin	56-11, TxAllov g.	wed signal	Comment Status be a GATED state can decide GATED of GATE state is no	if TxAll or not-	GATED. It will giv	
SuggestedF Remove		•	te, TxAllowed signa	al.		
Can no) SED / t remo	ACCEPT IN	Response Status I PRINCIPLE. s they are requied for			

			1 002.001 D				
Cl 56 SC 56.2.4.1.6 Jaeyeon Song	P Samsung	L	# 941	C/ 56 SC 56.2.4. Jin Kim	1.6 P121 Samsung Elect	L Figure 56- tronics	# 974
SuggestedRemedy	Comment Status D on of 'transmitPending=false' tate. In other words, changin Response Status W P121 Samsung Elec	g the value after tran <i>L</i> Figure 56-	<i>multiplex</i> nsmission is better. # 972	transmission_in_prog multipoint_transmissi SuggestedRemedy Remove transmission Proposed Response PROPOSED ACCEP	Comment Status D mission_in_progress should be o gress[j] signals. Therefore, there ion_in_progress and transmission n_in_ progress signal in CLEAN Response Status W PT IN PRINCIPLE. ransmision_in_progress in CLEA	is no necessary of on_in_progress sign state.	checking both
SuggestedRemedy Separate Figure 56-11 i	Comment Status D s on in OLT, OLT does not han not OLT and ONU, and remo			Cl 56 SC 56.2.4. Jin Kim Comment Type T It is not clear how ea	1.6 P121, 119 Samsung Elect Comment Status D ch instance know that there is tra		# 975 multiplex
diagram. Proposed Response PROPOSED ACCEPT. CI 56 SC 56.2.4.1.6 Jin Kim	Response Status W P121 Samsung Elec	<i>L</i> Figure 56- tronics	# 973	Proposed Response PROPOSED ACCEP	are by receiving MA_DATE.reque	est primitives.	
SuggestedRemedy Remove TXAllowed sig Proposed Response PROPOSED ACCEPT TXAllowed is used in O transmitEnable in OLT	Response Status W N PRINCIPLE. NU	J	multiplex	Cl 56 SC 56.2.6. Bharati, Barnali Comment Type TR In 'PERIODIC TRAN	,	ot be a check if vari	
signals derived from dif Work required to clarify See #940	erent locations and serve dif	ferent purposes.		Proposed Response ACCEPT. D1.0 #188 discovery	Response Status U		

Cl 56 Brown, Ber	SC 56.3 njamin	P122 AMCC	L 3	# 396	<i>CI</i> 56 Brown, Be	SC 56.3.1 njamin	P122 AMCC	L 25	# 397
	ection describes	Comment Status D how the mechanism for coord			<i>Comment</i> What	<i>Type</i> T is a network feed	Comment Status D		layering
	I to the success	procedures is outside the scop of P2MP?	e of the docum	nent. Isn't this function	S <i>uggested</i> Add a		network feeder" or use a differe	ent term.	
00	nissing something	g here?			Proposed	•	Response Status W		
Proposed P	Response OSED REJECT.	Response Status W				OSED ACCEPT	IN PRINCIPLE. PON and show the component	s in Annex 64	A. Term will be clarified.
Similar functio	to the load bala ning device, th e	ncer function for Link Aggrega funciton itself is not defined in ocation function fo allocation o	a standard.		<i>CI</i> 56 Diab, Wae	SC 56.3.1 I William	P 122 Cisco Systems	L 28	# 696
defined			n bandwidtin be		Comment		Comment Status D		layering
C/ 56 Dolors, Sal	SC 56.3	P 122 Broadcom	L 3	# 776			for a constant delay through th stamping mechanism.	e MAC and Pr	ny to maintain the
Comment	Type TR	Comment Status D ol operation and state in MPC	P This was an	layering	This is is nee		nent, however, a more numeric	treatment of t	ne meaning of "constant"
		ined layer model.	1 . This was ap		Suggested			- (
Suggested							Is with the numerical accuracy ad would allow for compliance t		elay". This would be
take ou	ut the sentence i	n line 3			Proposed	Response	Response Status W		
replace	e the "may be" in	line 2 for "is"			-	OSED ACCEPT			
Proposed I	,	Response Status W			A sect meani	•	e ranging process and the nee	d of this const	ant delay will clarify the
	OSED ACCEPT. ent is T and not				<i>Cl</i> 56 Dolors, Sa	SC 56.3.1	P122 Broadcom	L 48	# 777
C/ 56	SC 56.3.1	P122	L10	# 601	Comment		Comment Status D		multiple
Bemmel, V		Alloptic				51	intain in one place. The global	place is multip	
Comment		Comment Status D		multiplex	Suggested			r	
whethe	er 'MAC gating' is	Γ and ONU functions which ma s done within the OLT, or betw e different interpretations in the	/een ONUs (TD	DMA).	00		ine 48 and move it to section 2	.2. Another co	mment already relates to
Suggested	Remedy				Proposed	Response	Response Status W		
Rewrite	e section to clea	rly identify what is at the ONU	vs OLT.			OSED ACCEPT			
Proposed F	Response OSED ACCEPT.	Response Status W					r to a global site, parsing of MF ect and text should not be char		ormed by OMP block

SC 56.3.1

<i>CI</i> 56 Dolors, Sala	SC 56.3.3	P 124 Broadcom	L1	# 778	CI 56 Chan Kim	SC 56.3.3.1.	6 <i>P</i> 126 ETRI	L 9	# 951
Comment Ty	pe TR	Comment Status D		multiplex	Comment	Tvpe T	Comment Status D		multiple
The indic	cations OMP.re	equest and OMP.indication in of clause 2 service interface		,	the cas ONU is	se where the ke	ep alive time out is not importa yet. (here we assume that me		for OLT or when the
I am not	sure why they a	are not exactly the clause 2 in	nterface.		Suggested	Remedy			
SuggestedRe Please cl						oout changing it Master or me ==	to = boardcast_ID). it should be 'd	or' not 'and'.	
Proposed Re PROPOS See #15	, SED REJECT.	Response Status W				OSED REJECT	Response Status W	er ONUs that ha	ve disappeared.
OMP inte	-	client interfaces rather an ab R	straction of an	internal interface.	C/ 56	SC 56.3.4	P127 AMCC	L 25	# 399
C/ 56 Brown, Benja	SC 56.3.3.1.3 amin	Р 124 АМСС	L 30	# 398	Brown, Benjamin AMCC Comment Type T Comment Status D Discovery appears (based on the 3 pages of state diagrams) to be a fairly co			discover	
56.1.4.	nctions aren't re	Comment Status D equired if the timer conventic	ons of 14.2.3.2	<i>general</i> are used, as stated in	' Suggested		gnificantly more text description r Discovery.	on than is curre	ntly available
SuggestedRe Remove		and use the conventions of	14.2.3.2.		Proposed I	•	Response Status W		
Proposed Re PROPOS	esponse SED ACCEPT.	Response Status W			PROPOSED ACCEPT. New text and updated diagrams will t				
CI 56	SC 56.3.3.1.6	Р	L	# 942					
Jaeyeon Son	g	Samsung							
Comment Ty	pe T	Comment Status D		multiplex					
	6-13, in PARSE	INDICATION state, the orde opcode?	er and fields as	signment is not correct ;					
-timestan	emedy =m_sdu[0:1] np=m_sdu[2:5] :m_sdu[6:50]								
Proposed Re PROPOS	esponse SED ACCEPT.	Response Status W							

					1 002.001
C/ 56	SC	56.3.4.1	P 128	L 25	# 592
Murakami	, Ken		Mitsubishi E	lectric Cor	
Comment	Туре	т	Comment Status D		discovery
			parameter in MA_CONTRO	DL.request from D	iscovery Process to
Suggestee	dReme	dy			
discov Two ty is for 0 MA_C addition time_c primiti The c discov REGI Besid primiti Pleas	very ga ypes of OLT, a ONTR onal pa quanta ive in S lient ca very win STER_ es MA_ ive in S e see ti le nam	te should b MA_CON nother is fc OL.reques rameter gr END REG loulates the ndow, the r REQ inclue _CONTRO END REG he attatche e is muraka	t (create_discovery_window ant_length which indicates meter is mapped into length ISTER WINDOW state. e length of the discovery ga ound trip propagation delay ding IPG and preamble. L.request (create_discovery ISTER WINDOW state sho	overy_window) sh v) primitive for the the length of the d n parameter in A_(te based on the le v of the farthest Of y_window), MA_C	ould be specified. One OLT should have liscovery gate in CONTROL.request ength of allocated NU, and the length of
PROF	POSED	ACCEPT.			
C/ 56	SC	56.3.4.1	P133	L 33	# 593
Murakami	, Ken		Mitsubishi E	lectric Cor	
- RX - TX (ollowing of REG	SISTER ind	Comment Status D s are not clear in D1.1. licating Nack CK indicating Failure CK indicating Failure		discovery
Suggestee	dReme	dy			
Add th in Figu Add th state i Add th sectio Please	ne proc ure 56- ne proc in Figu ne defir n 56.3. e see t	ess to issu 17. ess to rece re 56-16. hition of MA 4.1.5. he attatche	ess in Figure 56-17. e OMP.request of REGIST eive REGISTER_ACK indicates A_CONTROL.indication white ad file. ami_2_1102.pdf.	ating failure in CO	MPLETE DISCOVERY
Proposed	Respo	nse	Response Status W		

Proposed Response

PROPOSED ACCEPT.

C/ 56 Chan Kim	SC 56.3.4.1	1 <i>P</i> 128 ETRI	L 42	# 952
<i>Comment 7</i> "registe		Comment Status D	ne text.	discovery
Suggestedl remove	R <i>emedy</i> = "register_msg	timer".		
Proposed F PROPC	Response DSED ACCEP1	Response Status W		
C/ 56 Chan Kim	SC 56.3.4.1	2 P129 ETRI	L 51	# <u>953</u>
	the term "subla	Comment Status D ayer" like in "Discovery Pr ances in the document.	ocessing sublayer" r	<i>discovery</i> night not be adequate.
SuggestedI how ab		overy processing block" ?		
	, DSED ACCEPT	Response Status W	ropriate changes.	
C/ 56	SC 56.3.4.1	2 P141	L14	# 744
OGURA, Ya	asuo	NTT		
	51	Comment Status D rant_list, although the stat	ement of insertion is	gate written, there is no
Suggested	Remedy			
		wing statement. Idow starts, the current gra	ant element is remov	ved from the list."
	, DSED REJECT	Response Status W		

P802.3ah Draft 1.0 Comments C/ 56 SC 56.3.4.1.3 P129 L51 # 954 C/ 56 SC 56.3.4.1.4 P131 L53 # 956 Chan Kim FTRI Chan Kim FTRI Comment Type E Comment Status D discoverv Comment Type Comment Status D discovery т since the grant duration includes the idle period and laser turn on,off time, the maximum exponent correct? random delay should consider those values. SugaestedRemedv SuggestedRemedv how about using exp(base,exponent)? it should read. Proposed Response Response Status W discovery window size less the REGISTER REQ MPCPDU frame size less the idle period PROPOSED ACCEPT. and laser turn on and off time. Although exponent is correct, exp is shorter and holds same degree of intelligibility Proposed Response Response Status W C/ 56 PROPOSED ACCEPT. SC 56.3.4.1.3 P130 L28 # 701 OGURA, Yasuo NTT C/ 56 SC 56.3.4.1.5 P132 L34 # 957 Comment Type т Comment Status D discoverv Chan Kim ETRI I heard of that there was an idea that ONU and OLT will auto-negociate a timing in ONU Comment Type т Comment Status D discovery using a "CapabilityVector". It's value means the time between receiving Grant until being able and being send a Ethernet Packet in the ONU. There is no description of this what if we don't know the MAC address of the ONU before registration? so the DA parameter should be removed, and it can be extracted later from the register reg "negociation mehcanism". message. SuggestedRemedy SuggestedRemedy If this topic is out of scope of EFM, how about add some description to explain this mechanism in the tail of "56.3.4.1.3 FunctionsÅFSuported Capabilities()". remove the DA argument from the MA CONTROL.request(create discovery window...). Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED REJECT. Negoriation of these parameters is performed using Turn On Delay, Turn Off Delay, AGC ONU MAC address is NEVER known prior to registration. Settling Time, and CDR Lock Time parameters. DA is multicast address used for MAC Control. Text will be added to describe interaction, volunteers are welcome. Further all Ethernet frames contain a Destination Address (DA). C/ 56 SC 56.3.4.1.4 P131 L42 # 955 C/ 56 SC 56.3.4.1.5 P133 L13 # 958 Chan Kim FTRI Chan Kim ETRI Comment Type E Comment Status D discoverv Comment Status D Comment Type Ε discovery to arrival => since arrival used only in ONU. the service interface diagram of Fig.56-15 might better be divided for whom must => who must OLT and ONU. SugaestedRemedv SuggestedRemedy as shown in comment divide the service interface for OLT and ONU. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. Diagrams will be split.

P802.3ah Draft 1.0) Comments
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<i>CI</i> 56 Chan Kim	SC 56.3.4.	1.6	P 134 ETRI	L13	# 959	C/ 56 Chan Kim	SC 56.3.4.1.6	6 P134 ETRI	L 40	# 962
	_	~			<i></i>					
	eally need to	specify this 'and	t Status D d me = broadcas s the broadcast I		<i>discovery</i> alue(less probable)		ISTER state, the	Comment Status D e list of items temporally latc sage definition. There is not		
SuggestedR	Remedy					Suggested	Remedy			
specify t	that OLT have	e 'FFFF' as LLI	D or OLT has no	LLID.		fix it for	the changed for	mat.		
Me varia	SED REJEC	T. ntext of MAC ir	Status W	Control, it can h	old any LLID when	Proposed R PROPC	Response DSED ACCEPT.			
associat	ted with a P2	PE port.				C/ 56 Chan Kim	SC 56.3.4.1.6	6 P134 ETRI	L 48	# 963
C/ 56	SC 56.3.4.	1.6	P134	L16	# 960					
Chan Kim			ETRI			Comment T		Comment Status D the ONU is requesting regis		discovery
				ld be replaced wi ast ID.(link constr	ith broadcast LLID and ained)	So, it ha	as nothing to do	lag shows the the registration with whether we'll have ano		
the DA s SuggestedR change of Proposed Re	should contai Remedy own_id to bro esponse	n later-specifie padcast_ID. and <i>Response</i>	d special multica d add a DA whic <i>Status</i> W		ained)	So, it ha coming <i>SuggestedF</i> change	as nothing to do from others ON Remedy the diagram so	with whether we'll have ano Us or not. that it jumps to INSIDE REC	ther REGISTER	_REQ messages
the DA s SuggestedR change of Proposed Re PROPO Text nee	should contai Remedy own_id to bro esponse SED ACCEP eds to clarify	n later-specifie padcast_ID. an <i>Response</i> T IN PRINCIPI OLT-ID and Bro	d special multica d add a DA whic <i>Status</i> W _E. padcast-ID.	ast ID.(link constr h value will be fix	rained) ked later.	So, it ha coming <i>Suggestedf</i> change <i>Proposed R</i> PROPC	as nothing to do from others ON Remedy the diagram so Response DSED ACCEPT.	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W	ther REGISTER	_REQ messages
the DA s SuggestedR change of Proposed Re PROPO Text nee CI 56	should contai Remedy own_id to bro esponse SED ACCEP	n later-specifie padcast_ID. an <i>Response</i> T IN PRINCIPI OLT-ID and Bro	d special multica d add a DA whic <i>Status</i> W LE. badcast-ID. P 134	ast ID.(link constr	ained)	So, it ha coming <i>Suggestedf</i> change <i>Proposed R</i> PROPC	as nothing to do from others ON Remedy the diagram so Response DSED ACCEPT.	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W ved due to support of single	ther REGISTER	_REQ messages //' state in either case. ONU.
the DA s SuggestedR change of Proposed Re PROPO Text nee Cl 56 Chan Kim	should contai Remedy own_id to bro esponse SED ACCEP eds to clarify SC 56.3.4.	n later-specifie padcast_ID. and <i>Response</i> T IN PRINCIPI OLT-ID and Bro	d special multica d add a DA whic Status W LE. padcast-ID. P134 ETRI	ast ID.(link constr h value will be fix	rained) ked later. # <mark>961</mark>	So, it ha coming SuggestedF change Proposed R PROPC First_fla	as nothing to do from others ON Remedy the diagram so Response DSED ACCEPT. ag is to be remov	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W ved due to support of single	ther REGISTER	_REQ messages
the DA s SuggestedR change of Proposed Re PROPO Text nee Cl 56 Chan Kim Comment Ty In the Cl ID when SuggestedR	should contai Remedy own_id to bro esponse SED ACCEP eds to clarify SC 56.3.4.4 WPE T HECK DEST a register_req Remedy	n later-specifie padcast_ID. and <i>Response</i> T IN PRINCIPI OLT-ID and Bru 1.6 <i>Commen</i> RUCT ID state, with destruct fi	d special multica d add a DA whic Status W LE. Dadcast-ID. P134 ETRI t Status D , it reads "if me !:	ast ID.(link constr h value will be fix <i>L</i> 34	rained) ked later.	So, it ha coming Suggestedf change Proposed R PROPO First_fla C/ 56 Chan Kim Comment 7 The 'DE the REO	as nothing to do from others ON Remedy the diagram so Response DSED ACCEPT. ag is to be remov SC 56.3.4.1.6 Type T EREGISTER' sta	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W ved due to support of single <i>P</i> 136 ETRI <i>Comment Status</i> D ate is entered from two state ge with fail indication, the ON	ther REGISTER BISTER WINDON registration per <i>L</i> 47 s. But when it is a	_REQ messages // state in either case. ONU. # 964 discovery entered after receiving
the DA s SuggestedR change of Proposed Re PROPO Text nee CI 56 Chan Kim Comment Ty In the Cl ID when SuggestedR change	should contai Remedy own_id to bro esponse SED ACCEP eds to clarify SC 56.3.4.4 WPE T HECK DEST in register_req Remedy 'me' to 'receiv	n later-specifie padcast_ID. and <i>Response</i> T IN PRINCIPI OLT-ID and Bro 1.6 RUCT ID state, with destruct fl ved LLID'	d special multica d add a DA whic <i>Status</i> W EE. Dadcast-ID. P134 ETRI t <i>Status</i> D , it reads "if me != ag?	ast ID.(link constr h value will be fix <i>L</i> 34 = broadcast_ID".	rained) ked later. # <u>961</u> <i>discovery</i> why do we check my	So, it ha coming Suggestedf change Proposed R PROPO First_fla C/ 56 Chan Kim Comment 7 The 'DE the REO	as nothing to do from others ON Remedy the diagram so Response DSED ACCEPT. ag is to be remov SC 56.3.4.1.6 Type T EREGISTER' sta GISTER messag TER_REQ with o	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W ved due to support of single <i>P</i> 136 ETRI <i>Comment Status</i> D ate is entered from two state ge with fail indication, the ON	ther REGISTER BISTER WINDON registration per <i>L</i> 47 s. But when it is a	_REQ messages // state in either case. ONU. # 964 discovery entered after receiving
the DA s SuggestedR change of Proposed Re PROPO Text nee Cl 56 Chan Kim Comment Ty In the Cl ID when SuggestedR change ' and rega	should contai Remedy own_id to bro esponse SED ACCEP eds to clarify SC 56.3.4.7 SC 56.3.4.7 ype T HECK DEST negister_req Remedy 'me' to 'receive ardless of the esponse	n later-specifie padcast_ID. and <i>Response</i> T IN PRINCIPI OLT-ID and Bro I.6 Commen RUCT ID state, with destruct fil yed LLID' e result of this c	d special multica d add a DA whic Status W LE. Dadcast-ID. P134 ETRI t Status D , it reads "if me !: ag? heck, the state s	ast ID.(link constr h value will be fix <i>L</i> 34	rained) ked later. # <u>961</u> <i>discovery</i> why do we check my	So, it ha coming Suggestedf change Proposed R PROPO First_fla C/ 56 Chan Kim Comment 7 The 'DE the REG REGIS' Suggestedf make th	as nothing to do from others ON Remedy the diagram so Response OSED ACCEPT. ag is to be remov SC 56.3.4.1.6 Type T EREGISTER' sta GISTER messag TER_REQ with o Remedy	with whether we'll have ano Us or not. that it jumps to INSIDE REC <i>Response Status</i> W ved due to support of single <i>P</i> 136 ETRI <i>Comment Status</i> D ate is entered from two state ge with fail indication, the ON	ther REGISTER GISTER WINDON registration per <i>L</i> 47 s. But when it is o IU doesn't have	_REQ messages <i>N</i> ' state in either case. ONU. # 964 <i>discovery</i> entered after receiving to send the

C/ 56	SC 56.3.5	P137	L1	# 400	C/ 56	SC 56.3.6		L	# 637
Brown, Be	enjamin	AMCC			Miyoshi, I	Hidekazu	Sumit	tomo Electric Indu	
Comment	Туре Т	Comment Status D		report	Commen	t Type T	Comment Status	D	gate
	not as complicate s currently availab	ed as Discovery, this section ble.	also deserves n	nore text description			ations for the extension o hi_p2mp_exGate.pdf, wi		set thresholds. A
Suggestee	dRemedy				Suggeste	edRemedy			
		Report Processing.				the arrow of MA	A_CONTROL.indication(1 = 140.	thresholds) from the Ga	ate processing block in
Proposed PROF	ame thing applies <i>Response</i> POSED ACCEPT description will he	-			MA_0 The s	CONTROL.indi service indication	escription in 56.3.6.1.5 M ication(thresholds) on issued by the Gate Pr e OLT has requested to	rocess to notify the MA	
C/ 56	SC 56.3.5	P137	L 6	# 702	Char	nge "MA CONT	ROL.request(grant,local	l,n,start[4],length[4],dis	covery,force report)" to
OGURA, `	Yasuo	NTT			"MA_	CONTROL.red	quest(grant,local,n,start[4		
Comment	Туре Т	Comment Status D		report	in 56	.3.6.1.5 Messa	ges.		
		EPORT MPCPDU, in the hig ne REPORT MPCPDU.	her layer, it shou	uld re-calculate a RTT	lf thre	esholds <> NU		M state in figure 56-22	on page 144.
Suggestee	dRemedy				MA	_CONTROL.in	dication(thresholds)		
recald For ex "In the	ulation with REPC cample, how about higher layer, OL	it add a following description T should calculate a RTT wit	?		Change "OMP.indicate(n*(start,length),discovery,force_report)" to "OMP.indicate(n*(start,length),discovery,force_report,thresholds)" in figure 56-22 on page 144.				
	PDU and update it				Proposed	l Response	Response Status	W	
•	Response	Response Status W			Pend	ling presentatio	on		
RTT v accon	npanying text in st	ng should be performed in Of tate UPDATE TIMER for the			<i>CI</i> 56 Chan Kim	SC 56.3.6	e P1: ETRI	39 L 38	# 965
local t	ime setting perfor	med by the ONU			Commen		Comment Status	D	anto
					rathe be he for e> indica	r than directly o elpful. kample, whethe ated. (it is assu	describing state diagram er the gate convers the ic med that the gate covers (off time. but parts of the	, explaining the essent dle period and laser on/ s all transmission of an	/off time or not is not ONU including idle
					Suggeste	edRemedy			
						ly indicate whe		pattern transmission ti	me and laser turn-on and

off time for ONU or not.

Proposed Response Response Status W

PROPOSED ACCEPT.

			F 002.3a
C/ 56 SC 56.3.6.1	P126	L13	# 99003
Jonathan Thatcher	World Wide Pac	kets	
···· //··	omment Status A		D1.0
There are a number of refere	nces to a phantom "highe	r-layer-entity"	within the clause.
SuggestedRemedy Unmask the phantom. Descr	ibe reference or otherwis	e expose this	: "entity "
Proposed Response Re	sponse Status U		Chity.
ACCEPT. Naming convention would be D1.0 #689	emade consistent using "N	/IAC Client" o	r "MAC Control Client"
C/ 56 SC 56.3.6.1.2	P141	L 6	# 949
Tae-Whan Yoo	ETRI		
Comment Type T Co	omment Status D		gate
recipient of the grant with the could restrict the implement SuggestedRemedy We suggest that the 48-bit so the 16-bit "LLID".	tion freedom.	·	
Proposed Response Re	sponse Status W		
PROPOSED REJECT. This mechanism is not used It holds the DA that was rece not restrictive in any way. The DA is then used to distin Further the state is held insid	to realize multiple MACs. vived in the GATE that arri	grant, and a m	
C/ 56 SC 56.3.6.1.2	P142	L 12	# 708
OGURA, Yasuo	NTT		
Comment Type E Co Until "IDLE_timer" has been IDLE pattern only.But there is			
SuggestedRemedy	· · · · · · · · · · · · · · · · · · ·		
How about add the following "During the laser_off_time, a			tion of "laser_off_time".
o	sponse Status W		

PROPOSED REJECT.

During the lase_off_time the MAC is inactive, therefore the PCS transmits IDLE sequences. It is not permited to the MAC to transmit arbitrary data patterns.

C/ 56	SC 56.3.	6.1.2	P1	42	L 4	# 707	
OGURA, Y	'asuo		NTT				
	"56.3.6.1.4 T	imers:IDLE_		is des	cription that:"when 56.3.6.1.2 Variable		<i>gate</i> I-pairs
	bout add the	following de ime, only IDL			end of the description transmitted."	on of "IDLE_time	".
Proposed PROP	Response OSED ACC		onse Status	w			
<i>CI</i> 56 Bemmel, \	SC 56.3. /incent	6.1.6	P1 Allopt		L 1	# 602	
Comment use se		Com vs. ONU diag	<i>ment Status</i> Jrams	D			gate
Suggested use se		vs. ONU diag	jrams				
Proposed PROP	Response OSED ACC	,	onse Status	w			
<i>CI</i> 56 Chan Kim	SC 56.3.	6.1.6	P1 ETRI	44	L 37	# 967	
time a why de	state 'SORT nd turn-on/of	. it checks if if time. But, check this?		until th	ne start time can con d that the grant dura	•	
Suggested	lRemedy						
remov	e the line for	checking the	e time left.				
Proposed PROP	Response OSED REJE		onse Status	w			

The check is performed to ensure that there is enough time to turn on and off the laser

C/ 56	SC 56.3.6.1.6	P144	L 5	# 966	C/ 5
Chan Kim		ETRI			Miyo
Comment	Туре Т	Comment Status D		gate	Con
		MP are generally unneces			
		xpressing in several seque vided for receiving and cor			
		eceived gate can occur at			
	d have separate st				
Suggeste	dRemedy				
		am of Gate Processing to on the gate can be separated		ONU. Also, receiving	Sug
Proposed	Response	Response Status W			
PROF	POSED ACCEPT.				
CI 56	SC 56.3.6.1.f+	+ P126	L25	# 99004	I .
Jonathan		World Wide		<i>"</i> 33004	
				_	
Comment		Comment Status A		D1.0	
		l Ports List" (per Figure 56 he "s" off of "Ports" everyv			
			where.		
Suggester	lescription				
					Prop
	Response	Response Status U			
ACCE					
D1.0 i	#690				
CI 56	SC 56.3.7.1	P128	L33	# 99005	
Jonathan	Thatcher	World Wide	Packets		
Comment	Type TR	Comment Status A		D10	
		Comment Status A	noal of the registra	D1.0	
Valida	ation of correct regi	stration is an appropriate		ation process.	
Valida	ation of correct regi tration data sent in			ation process.	
Valida Regis PDU.	ation of correct registration data sent in	stration is an appropriate the "Registration PDU" sh	nould be returned	ation process. in the "Registration Ack"	
Valida Regis PDU. Note,	ation of correct regi tration data sent in the frequency of re	stration is an appropriate of the "Registration PDU" she again the second should not be sub-	ufficient to impact	ation process. in the "Registration Ack" overall performance.	
Valida Regis PDU. Note, Savin	the frequency of re g a few bytes is no	stration is an appropriate the "Registration PDU" sh	ufficient to impact	ation process. in the "Registration Ack" overall performance.	
Valida Regis PDU. Note, Savin	tration of correct regi tration data sent in the frequency of re g a few bytes is no dRemedy	stration is an appropriate of the "Registration PDU" sh egistration should not be so t worth not being able to v	ufficient to impact	ation process. in the "Registration Ack" overall performance.	
Regis PDU. Note, Savin Suggestee	tration of correct regi tration data sent in the frequency of re g a few bytes is no dRemedy	stration is an appropriate of the "Registration PDU" she again the second should not be sub-	ufficient to impact	ation process. in the "Registration Ack" overall performance.	
Valida Regis PDU. Note, Savin Suggestee Add C	tration of correct regi tration data sent in the frequency of re g a few bytes is no dRemedy	stration is an appropriate of the "Registration PDU" sh egistration should not be so t worth not being able to v	ufficient to impact	ation process. in the "Registration Ack" overall performance.	

ACCEPT. D1.0 #688

SC 56.4 P144 1 # 635 Sumitomo Electric Indu Hidekazu nt Type T Comment Status D aate ce the size of MPCP messages is fixed to 64 Byte, information which can be conveyed hugh MPCP messages is limited. However various types of data may need to be hanged via MPCP messages for higher efficiency, QoS policy and/or other reasons. In sense, it would be significant benefits for us to allow MPCP messages to exchange erse data as additional information. le, miyoshi_p2mp_addInfo.pdf, is attached for discussion. tedRemedy ine the additional information fields in MPCP messages as optional. lowing is one possible definition of the field. he Number of additional field (8 bits) indicates the number of sets of the code length and the add data field. Bit 0-3 of the code length field (8 bits) identifies the specific data type embedded in the _data field. Bit 4-7 of the code_length field specifies the size of the add_data field in byte. he add data field conveys various types of data identified by the code field. MPCP messages may hold multiple sets of the code_length and add_data fields as cated by the number of additional field. This is an optional field, and a peer may ignore field. Response Status W d Response OPOSED ACCEPT IN PRINCIPLE. #154 rder to allow custom fields to be exchanged in a standadized fashion, a TLV mechanism be defined. chanism requires: endor identification during discovery sequence (TBD) byte type/length field to be interpreted as: ost significant bits - type ast significant bits - length value definitions: no field present, always paired with 0 length reserved extend, first byte of payload is extension of type (to values 16 - 271) 4 to be interpreted according to vendor extend, first byte of payload is extension of type (to values 272 - 527) to be interpreted ording to vendor

DOOD Date Draft 1 0 Ca

			P80)2.3ah Dr	aft 1.0 Co	omments				
C/ 56 SC 56.4.2	P 146	L	# 636		C/ 56	SC 56.	.4.2	P146	L	# 634
however, no standard me an interoperability issue. I A presentation, miyoshi_p SuggestedRemedy Add the following stateme Number of thresholds. Thi threshold_value fields in th x) Threshold_flag. The thr for the threshold as showr Bit 0: action. The action fla specified by the queue nu Bit 1-3: queue number. Th is set or reset. Bit 4-7: threshold id. The t x) Threshold_value. The ti value of threshold. The gr	s field specifies the numbe he Gate message. eshold_flag field is an optic	am bandwidth e ds from OLT to extending the g ubmitted. r of sets of thre onal 8 bit field th , set or reset, fo s. ifies the queue he threshold. optional 16 bit fi	ONU, which can lead to ate message. shold_flag and nat contains inform or the threshold to which the thresh	ation	sche band slot a For e QL={ (300- may was v A file Suggeste Add a Gran this F Queu field. This 1. Sc QUE lengt 2. Of slot. 3. M/ by Q	t Type T n ONU repo duling algor width alloca assignment example, if v (350,150), (2 +150=450) 1 interpret 45 violated: OL , miyoshi_p edRemedy an optional t bitmap. Th REPORT MI ue_grant[i]. The length mechanism cheduler (M/ UE_GRAMT h. NU receives MPCP indic AC Control O UEUE_GRAMT h.	orts mult rithms for ation pro- loss. we assur 2) OLT of to ONU, 0 as 100 _T doesr of a star p2mp_qg field ind his is an PCPDU Length of is count of works a AC Cont T[07], e s the GA cates GA Client m ANT[i].	Comment Status D iple boundaries for each or perly as expected by OL ⁻ me that (1) ONU sends a chooses 300 for QH and 2 there would be no way for 0 from QH and 350 from O n't know the ONU's decisi grant.pdf, is attached for o icating grant length per q 8 bit flag register that ind of the signaled grant for p ted in 16 bit time increme	ackets, ONU may , which can caus 50 for QL, and (3 50 for Selecting tra- iscussion. Jueue as shown be icates which queue icates which queue ciority queue #i, that. a GATE messag n for a priority que OTAL_GRANT an introl Client.	y not decide the e policy violation and/or 0,100} and) OLT grants 450 d packets properly: ONU T never knows its policy ansmission packets. How. Hes are represented in his is an 16 bit unsigned e with 8 slot lengths, eue, and total grant hd program aggregated
					In the Proposed	t Type E edRemedy	E "GRANT	P146 NTT Comment Status D MPCPDU" should be a Response Status W	L 36 GATE MPCPDU"	# <mark>746</mark> gar

				Fou	2.5an Dian		ents			
Cl 56 SC 56 Bemmel, Vincent	.4.2	P 146 Alloptic	L 37	# 603		C/ 56 S OGURA, Yasud	C 56.4.2	<i>Р</i> 147 NTT	L 25	# 718
	E Commen DU' should be 'GAT	nt Status D E MPCPDU'			gate C	Comment Type There is no description	description	<i>Comment Status</i> D n when ONU will not send a R	EPORT MPCPE	<i>gate</i> DU in the "GATE
SuggestedRemedy	T MPSPDU' with 'G				S	SuggestedRem	nedy			
Proposed Response PROPOSED AC	e Response	e Status W				"If ONU ha MPCPDU າ	s no traffic with empty	lowing description. in the buffer and force_report content. If force_report_flag = d send IDLE symbol pairs wh	= 0, ONU may s	end a REPORT
C/ 56 SC 56 Chan Kim	.4.2	P 147 ETRI	L 24	# 968		,		proposals in the attached file:	0	
grant period SuggestedRemedy	t flag is to ask the C int period or at the b		J	e at the correspond	<i>report</i> ding	It is not pos Further que on queue p Further pro	D REJECT generation i ssible for M eue population population. posal to tra	Response Status W : : : : : : : : : : : : :	a valid report. d thus it can not ending a REPOR	make decisions based
Text better desc	e Response CCEPT IN PRINCIP ribing force_report he Client's responsi	behaviour would		such their behavior	mav	2/ 56 S Chan Kim	C 56.4.2	P147 ETRI	L 26	# <u>970</u>
or may not be sy	vnchronized with the	e Gating process	L 25	# 729			putting a re	Comment Status D eserved byte after number of g undaries of the fields 16 bit alig		gate
OGURA, Yasuo		NTT				SuggestedRem				
Comment Type	C ommer	nt Status D			report	put a reser	ved byte af	ter the "number of grants/flags	s" field of GATE	message.
	cription in the case of RT MPCPDU or not		flag = 0". I think	of that ONU can de	ecide F	Proposed Resp PROPOSE		Response Status W		
SuggestedRemedy								not require alignment for man	datory fields, res	served fields waste
report flag fields	w about add the foll ". eport flag = 0' is set	0		•	rce	limited fran	ne size.			
Proposed Response	e Response	Status W								
Please not that t	CEPT IN PRINCIP the Client may send	REPORT arbitra	arily, as REOPR	rs are neither						

generated nor blocked by the MAC Control

P802.3ah Draft 1.0 Comments

<i>CI</i> 56 Chan Kim	SC 56.4.2	<i>P</i> 147 ETRI	L 26	# 969		<i>CI</i> 56 Bemmel, '	SC 56.4.3 Vincent	P 149 Alloptic	L 30	# 604
	out explicitly sp	Comment Status D ecifying that the grant length ind simple and clear.	ludes the idle	e period and turn-or	<i>gate</i> n/off		erm "Number of I	Comment Status D Requests" is confusing. This We could use a better name		report est, containing multiple
SuggestedR specify i		e contains the idle period and la	ser turn-off/or	n time.		Suggester "Num	<i>dRemedy</i> ber of Queue Se	ts"		
Addition	SED ACCEPT	Response Status W xplicitly state the composition o period in addition to the period				PROF	<i>Response</i> POSED ACCEPT ge Fig. 56-25, as	-		
C/ 56	SC 56.4.2	P147	L 26	# 745		C/ 56 OGURA, `	SC 56.4.3 Yasuo	<i>Р</i> 149 NTT	L 31	# 719
OGURA, Ya Comment Ty	ype T	NTT Comment Status D			gate	<i>Comment</i> d) "Th		Comment Status D the the number of requests"	' :The first "the" sh	report nould be deleted.
sequenc	cial order. I feel	ultiple grants int a GATE MPCF the behavier simple.	DU, it will set	them with time-		Suggeste After I	-	d) Number of requests. This	field specifies the	number of"
	escription "d) G	arant#n Start Time", how about a of the Start Time, OLT should			ncial	Proposed	Response POSED ACCEPT	Response Status W	·	
Proposed R	<i>esponse</i> ISED REJECT.	Response Status W				<i>CI 56</i> OGURA, `	SC 56.4.3 Yasuo	<i>Р</i> 149 NTT	L 34	# 721
		outside of MPCP, and arenot co Igorithm not to work sequential		It might be benefic	cial to	Comment P.149	51	Comment Status D served2" : "2" should be del	eted.	report
C/ 56 Sio Peng G(SC 56.4.2 DI	P 147 Institute for Con	L 40 imunic	# 897		Suggeste After I	•	f) Pad/Reserved. This is an	empty field".	
Comment Ty The Pac		Comment Status D d length differs from that in Figu	re 56-24		gate	•	Response POSED ACCEPT	Response Status W		
SuggestedR Change	-	ne Pad/Reserved field to varies	in length from	n 11 to 33 accordin	gly	C/ 56 OGURA, `	SC 56.4.3 Yasuo	<i>Р</i> 149 NTT	L 36	# 722
	esponse SED ACCEPT nt is T not E	Response Status W				Comment "Leng	51	Comment Status D	0 -39" so that "7" :	report should be deleted.
						Suggeste After I		and accordingly varies in ler	ngth 0 to 39."	
						PROF		Response Status W ength in Table 56-25 should	correspond to the	e value given in p. 149

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P802.3ah Draft	1.0 Comments
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C/ 56 SC 56.4.4 P 152 L 14 # 971 Chan Kim ETRI	C/ 56 SC 56.4.6 P 154 L 52 # 725 OGURA, Yasuo NTT
Comment Type T Comment Status D discovery how about putting a reserved byte after the flags in register_req message to make them 16 bit aligned? SuggestedRemedy SuggestedRemedy	Comment Type E Comment Status D discovery In the item "a)", "REGISTER MPCPDU" should be a "REGISTER_ACK MPCPDU". SuggestedRemedy SuggestedRemedy After being modified "b) Opendo. The speedo for the RECISTER ACK MPCPDU is 00.06".
put a reserved byte after the Flags field of REGISTER_ACK message. Proposed Response Response Status W PROPOSED REJECT.	After being modified, "a) Opcode. The opcode for the REGISTER_ACK MPCPDU is 00-06". Proposed Response Response Status W PROPOSED ACCEPT.
Ethernet protocols do not require alignment, reserved fields waste limited frame size. Cl 56 SC 56.4.5 P 153 L 30 # 724 OGURA, Yasuo NTT Comment Type E Comment Status D discovery In the item "I)", "Echoed urn off delay" should be a "Echoed turn off delay". SuggestedRemedy After being modified, "I) Echoed turn off delay.". Proposed Response Response Status W	Cl 56 SC 56-16 P134 L # 905 Sio Peng GOI Institute for Communic discovery Comment Type T Comment Status D discovery timer ONU_timer is set in REGISTER state but not cleared anywhere. SuggestedRemedy in COMPLETE DISCOVERY state, add:remove(ONU_timer[MAC]) Proposed Response Response Status W PROPOSED ACCEPT. V
PROPOSED ACCEPT. Cl 56 SC 56.4.5 P153 L 6 # 605 Bemmel, Vincent Alloptic Comment Type T Comment Status D discovery Table 56-5 has the following definition: "Destruct' is a request to destroy the port and free the LLID. Subsequently, the MAC is destroyed"	CI 56 SC Figure 56-1 P 109 L # 899 Sio Peng GOI Institute for Communic Institute for Communic Comment Type E Comment Status D Iayering GMII not shown in Figure 56-1. P2MP not mentioned. Iayering SuggestedRemedy Remove GMII= Add P2MP=Point-to-Multipoint.
Notice that the REGISTER is sent from the OLT to the ONU upon receiving a REGISTER_REQUEST. At this point the ONU is not registered yet, and hence this definition is not correct. SuggestedRemedy Remove "Destruct" from table 56-5	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add a GMII pointer in the figure the same as MDI P2MP is not mentioned in the figure. So I do not see the need of adding it. C/ 56 SC Figure 56-10 P119 L12 # 894
Proposed Response Response Status W PROPOSED REJECT. REGISTER message with destruct flag is sent when ONU is registered.	Sio Peng GOI Institute for Communic Comment Type E Comment Status D multiplex Figure 56-10 should be Control Multiplexer SuggestedRemedy Change all Control Parser/Multiplexer to Control Multiplexer
	Proposed Response Response Status W PROPOSED ACCEPT.

Cl 56 SC Figure Bharati, Barnali	56-11 <i>P</i> 108 Wipro Tech	<i>L</i> nologies	# 99007	C/ 56 Bharati, Barn	SC Figure 56-11 ali	l P 108 Wipro Techn	L 35 ologies	# 99009
Comment Type TR State 'CHECK DEST might lead to unnece SuggestedRemedy Proposed Response ACCEPT. D1.0 #185 Cl 56 SC Figure	Comment Status A RUCT ID' can appear before ssary indication. Response Status U	-	D1.0 EGISTER', otherwise it # 99006	SA=broa state ma SuggestedRe OLT can Proposed Re REJECT	rer receives an Of dcast_ID), OLT no chine. armedy just ignore the ind sponse f cactly what happe	Comment Status A MP.indication (subtype=F eed not call END function dication and transit to 'IDI Response Status U Ins in state CHECK DES	REGISTER_REG A. As this would LE' state.	require a reset of the
Bharati, Barnali Comment Type TR	Wipro Tech Comment Status A ISTER_ACK can arrive in the	-	D1.0	C/ 56 Khansari, Ma	SC Figure 56-11 soud	P 121 Centillium Co Comment Status D	<i>L</i> pmmunicat	# 317 multiplex
	_ACK in the 'INSIDE REGIS IPLETE DISCOVERY' <i>Response Status</i> U	TER WINDOW's	state, should trigger a	SuggestedRe Clearly ic solution i Proposed Re	emedy lentify this in the s s to set this varial sponse f SED ACCEPT.	is never reset to FALSE. state diagram and definiti ble FALSE in the "CLEAN Response Status W		nable" in Page 120. One
Cl 56 SC Figure Bharati, Barnali	56-11 P108 Wipro Tech	L 25 nologies	# 99008	<i>CI 56</i> Khansari, Ma	SC Figure 56-11 soud	P 121 Centillium Co	<i>L</i> ommunicat	# 321
SuggestedRemedy	Comment Status A expire in the 'INSIDE REGIST mer' in state 'INSIDE REGIST			DATA F SuggestedRe	ould read "reques RAME state trans		and TRANSMI	multiplex 「READY>SEND
Proposed Response ACCEPT. Comment is valid. Solution confuses ID ONU state goverene	ing additional state-machine v	u o	2 /	Proposed Re		Response Status W		

318 C/ 56 SC Figure 56-11 P121 L Khansari, Masoud Centillium Communicat Comment Status D Comment Type T multiplex Variable TXAllowed is not defined in the list of variables for this state diagram SuggestedRemedy Clearly define TXAllowed in 56.2.4.1.2 Proposed Response Response Status W PROPOSED ACCEPT. see #173 C/ 56 P121 SC Figure 56-11 L16 # 173 Bharati, Barnali Wipro Technologies Comment Type E Comment Status D multiplex TXAllowed is missing from the variable list. SuggestedRemedy Response Status W Proposed Response PROPOSED ACCEPT. See #318 C/ 56 SC Figure 56-11 P121 L25 # 172 Bharati, Barnali Wipro Technologies Comment Status D Comment Type **T** multiplex Once transmitEnable[j] is set to 'On' in multiplexing control state diagram so that only one MAC controller instance may be able to transmit, it needs to be reset to flase (or off) in fig 56-11. SuggestedRemedy transmitEnable needs to be set to flase (or off) in 'CLEAN' state in Fig 56-11 Proposed Response Response Status W PROPOSED ACCEPT.

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		6-12	P 123	L	# <u>906</u>
Sio Peng (GOI		Institute for C	ommunic	
Comment In Figu block.	ure 56-3, OMP P		Status D tiplexer are 2 se	eparate blocks w	<i>multiple»</i> hile here it is still in 1
S <i>uggestec</i> Split ir Multip	nto a OMP Parse	er and a OMP	Multiplexer, jus	i like Control Par	ser and Control
•	Response OSED ACCEPT	Response	Status W		
CI 56	SC Figure 5	6-13	P 126	L	# 904
Sio Peng (GOI		Institute for C	ommunic	
Suggested	lRemedv				
Chang Proposed	ge timeout(max_	Response	,	ut(omp_timer)	
Chang Proposed	ge timeout(max_ Response	Response	,	ut(omp_timer)	# 322
Chang Proposed PROP	ge timeout(max_ Response OSED ACCEPT SC Figure 5	Response	Status W	L	# 322
Chang Proposed PROP Cl 56 Khansari, I Comment Transi	ge timeout(max_ Response OSED ACCEPT SC Figure 5 Masoud Type E tion OMP TIMEO	Response 6-13 Comment DUT -> ERRO	Status W P126 Centillium Co Status D R STATE shou	L mmunicat d read "true" ins	multiple
Chang Proposed PROP Cl 56 Khansari, I Comment Transi	ge timeout(max_ Response OSED ACCEPT SC Figure 5 Masoud Type E tion OMP TIMEC tion OMP TIMEC	Response 6-13 Comment DUT -> ERRO	Status W P126 Centillium Co Status D R STATE shou	L mmunicat d read "true" ins	multiple.
Chang Proposed PROP Cl 56 Khansari, I Comment Transi Suggested	ge timeout(max_ Response OSED ACCEPT SC Figure 5 Masoud Type E tion OMP TIMEC tion OMP TIMEC	Response 6-13 Comment DUT -> ERRO DUT -> WAIT	Status W P126 Centillium Co Status D R STATE shou	L mmunicat d read "true" ins	multiples

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 56 SC Figure 56-13 Bharati, Barnali	P 126 Wipro Technolog	L 20 gies	# 174	C/ 56 Bharati, Bar	SC Figure : mali	56-18	P 136 Wipro Techno	L 30 blogies	# 176
Comment Type T Co Rather than set_timer, it would old timer made to reset rather SuggestedRemedy			<i>multiplex</i> on reset_timer. So that	SuggestedF	in both 'ACK' Remedy	and SUBSE	nt Status D QUENT ACK' sta tates. State 'SUB		<i>discover</i> y K' can be removed
Proposed Response Res PROPOSED REJECT. Timer functions to be rewritten	ponse Status W	4.2.3.2		Will fix i	, DSED ACCEP	T. grams, state \$	e Status W SUBSEQUENT A	CK is to be rem	oved due to support of
Cl 56 SC Figure 56-17 Kramer, Glen	P 135 Teknovus	L	# 155	C/ 56 Bharati, Bar	SC Figure : mali	56-18	P 136 Wipro Techno	L 47 blogies	# 177
Comment Type T Co Transition from state REGIST MA_CONTROL.indication, rat SuggestedRemedy			<i>discovery</i> Ild be marjed as	to 'DER	ly if additional EGISTER' to '	registration is ZERO STATE		'registered' is se	<i>discover</i> y REGISTERED WAIT' et to flase. This should deregistered.
Change "indication" to "reque	st"			SuggestedF	2				
, ,	ponse Status W						nowing if all regis	strations has bee	n deregistered
PROPOSED ACCEPT. <i>C</i> / 56 SC Figure 56-18	P136	L12	# 175		SED REJECT	, Г.	e Status W	er ONU.	
Bharati, Barnali	Wipro Technolog	gies		C/ 56	SC Figure	56-2	P110	L3	# 386
Comment Type T Co	mment Status D		discovery	Brown, Ben	-		AMCC	20	<i>"</i> <u>500</u>
Upon reception of OMP.indica 'ARRIVING REGISTER 2' to ' another REGISTER_REQ wit	DEREGISTER' state is tr	iggered (see 2	true). This will send	Comment T Where i	<i>ype</i> E E the reference		nt Status D 5-2?		layering
SuggestedRemedy				SuggestedF	Remedy				
May create a new state 'DERI				Add a re	eference to thi	s figure and s	ome descriptive	text.	
 OMP.request (SA, DA, su 	blype=REGISTER_ACK,	, destruct_flag	= true)	Proposed R	Response	Response	e Status 🛛 🛛 🛛 🛛 🛛 🖉		
2) Registered = flase					SED ACCEP				

C/ 56SC Figure 56-20P 139LKhansari, MasoudCentillium Communicat	# 323	C/ 56 So Brown, Benjami	C Figure 56-3 in	<i>P</i> 111 AMCC	L 4	# 387
Comment Type T Comment Status D There is no need for "Master == flase" condition checking in PERIODIC state.	<i>multiplex</i> C TRANSMISSION	<i>Comment Type</i> The arrow f 1b.		nent Status D er to the MAC shou	Ild point towards	multiplex the MAC - see Figure 2-
SuggestedRemedy periodic_timer is only set when transmitting a REPORT, which happen flase.	s when Master ==	SuggestedRem Change dire	edy ection of arrow from	Control Parser to M	AC.	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		Proposed Resp PROPOSE	oonse Respo D ACCEPT.	nse Status W		
Addition of check for Master == True required in Report processing to not send REPORT	make sure OLT does	C/ 56 Si Sio Peng GOI	C Figure 56-5	P 114 Institute for C	<i>L</i> Communic	# 901
CI 56 SC figure 56-22 P 64 L 34 Maislos, Ariel Passave Comment Type TR Comment Status D	# <u>818</u>					<i>multiplex</i> , instead it determines
Comment Type TR Comment Status D SORT block does not calculate correctly the required offset until the state condition check does not correctly compensate for elapsed time and or		SuggestedRem				
SuggestedRemedy Change text of SORT block to: current_grant = min_extract(start, grant_list) time = min(current_grant.length, max(current_grant.start - local_time+c 0)) if time > laser_on_time + IDLE_time + laser_off_time	current_grant.length),		,			ock and is required to
set_timer(grant_start, max(current_grant.start - local_time, 0)) else repeat block while !empty(grant_list)		CI 56 So Bharati, Barnali	C Figure 56-8	P 100 Wipro Techn	L11	# 99010
Proposed Response Response Status W PROPOSED ACCEPT.		Comment Type	TR Com	ment Status A	ů.	D1.0 padcast_ID)' would force
CI 56 SC Figure 56-3 P111 L Sio Peng GOI Institute for Communic Comment Type E Comment Status D	# 898 multiplex	OLT to go t REGISTER This would	o ERROR state in ca	se only one ONU w ag set. So no more mp_timer and OLT	vas present and t messages woul would transit to E	his ONU has sent a d come from the ONU. ERROR STATE. Not
Messages are sent from the OMP Multiplexer to clients	manipress	SuggestedRem	nedy			
SuggestedRemedy		Could 'me =	== broadcast_ID' be	removed from the c	ondition?	
There should be a link from OMP Multiplexer to the MAC Control Clien	ts to reflect this.	Proposed Resp		nse Status U		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. All function blocks issue MA_CONTROL primitives as shown by arrows of Figure 56-3 The interface should be clarified.	s in upper left corner	Change UC Condition is discovery.		uld not terminate it irrently terminated.	s broadcast-llid v	where is performs 'return to available LLID

Cl 56 Kramer, Gle	SC Figure 56- en		P 117 eknovus	L	# 151	<i>CI</i> 56 Khansari.	SC Figure 5 Masoud		₽ 118 ntillium Comn	<i>L</i> nunicat	# 319
Kramer, Gle Comment 7 Control analogy indicati Suggested/ Remov Proposed F PROPC OMP.in Change	en <i>Type</i> T I Parser belongs t y with clause 31.5 ons, but not OMP <i>Remedy</i> re OMP.indication <i>Response</i> DSED ACCEPT II ndication is a plac	Comment Sta to an opcode-ind 5). As such, it sh P. indication. a from the Fig. 50 Response Sta N PRINCIPLE. te-holder for intel lescription of OF	eknovus atus D dependent p hould only ge 6-8 tus W ernal commu PM.indicatior	enerate MA_DA inication with the n to something t	<i>layering</i> nt MAC Control (see TA and MA_CONTROL	Khansari, Comment Transi Suggested Transi Proposed Add "F C/ 56 OGURA, N	Masoud <i>Type</i> T ition from "WAIT <i>dRemedy</i> ition occurs wher <i>Response</i> POSED ACCEPT ReceiveFrame" s <i>SC</i> Figure56 Yasuo	Ce Comment Stat FOR RECEIVE" to "ReceiveFrame" : Response Statu ignal of MAC servi 5-10 / NT	ntillium Comm us D p "PARSE" sta signal of MAC us W ce interface. P 119 T	ates should be	multiple. e clarified face is set. # 740
	<i>Type</i> T I Parser's output t han OMP.indicati	In <i>Comment Sta</i> to OMP Parser/I			# 902 multiplex CONTROL.indication	"Conti Proposed	dRemedy	Comment Stat ::"Control Parser/N Response State	lultiplexer" of	the Figure56	multiple
Proposed F PROPO See #1	, DSED REJECT.	Response Sta		ce to the MAC (Control Client.	Cl 56 OGURA, N Comment		-10 NT NT Comment Stat		L 22	# <mark>739</mark> multiple
Cl 56 Sio Peng G Comment 1 Figure : Suggestedl	<i>Type</i> E 56-8 should be C	In Comment Sta	P117 astitute for C atus D	L ommunic	# 895 multiplex	"Conti Proposed	-	ervice Interface". Response State		of the Figure	56-10, it should be a
Proposed F	e Control Parser/f Response DSED ACCEPT.	Multiplexer to Co Response Sta	•	lexer in caption		OFF. Suggested In the Proposed	Type T is a description i dRemedy top of the block: ¹ Response POSED ACCEPT	NT Comment Stat t turn "transmitEna 'CLEAN", how abo Response Statu	us D Ible" ON, but i ut add "trans	·	# 7 <u>35</u> <i>multiple></i> n it turn "transmitEnable" OFF".

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C/ 56	SC	Figure56-1	3 P126	L 28	# 713
OGURA,	Yasuo		NTT		
Commer	nt Type	т	Comment Status)	discovery
woul spec will t	d not sei ification urn it's L	nd a "REGIS when multip aser ON at t	STER_REQ" because	of it's "Backoff_w do AutoDiscover nay not be able to	y at the same time.All ONUs
Suggeste	edReme	dy			
tunr state	Laser Ol Diagrar	FF when it d n".		REGISTER_REQ	agram", so that OLT can not in the "DiscoveryProcess
How "Disc	coveryG/	eat it in the o ATE"> OL	only "DiscoveryProce T send to "Discoveryl	Process", while	n".
"Nor	malGAI	E"> OLT	send to "GateProce	ss" in the OMP pa	arser.
			send to "GateProces		
Ther	e is som	e detail prop		I file:"ogura-49e.p	
Ther Proposed PRC Base	e is som <i>d Respol</i> POSED ed on og	e detail prop nse ACCEPT IN	oosals in the attached <i>Response Status</i> V I PRINCIPLE. f and additional comp	I file:"ogura-49e.p V	
Ther Proposed PRC Base appr	e is som d Respo POSED ed on og opriately	e detail prop nse ACCEPT IN ura-49e2.pd	oosals in the attached Response Status V I PRINCIPLE. f and additional comp s.	l file:"ogura-49e.p V pensation for lase	pt".
Ther Proposed PRC Base appr CI 56	e is som d Respon POSED ed on og opriately SC	e detail prop nse ACCEPT IN ura-49e2.pd fix diagram	oosals in the attached Response Status V I PRINCIPLE. f and additional comp s.	l file:"ogura-49e.p V pensation for lase	pt". r turn on delay, editor will
Ther Proposed PRC Base	e is som d Respond POSED ed on oge opriately SC Yasuo	e detail prop nse ACCEPT IN ura-49e2.pd fix diagram	oosals in the attached <i>Response Status</i> V I PRINCIPLE. f and additional comp s. 5 P128	I file:"ogura-49e.p V bensation for lase	pt". r turn on delay, editor will
Ther Proposed PRC Base appr C/ 56 OGURA, Commen Ther	e is som d Respon POSED ed on og opriately SC Yasuo at Type e is an a	e detail prop nse ACCEPT IN ura-49e2.pd fix diagram Figure56-1 E rrow which i	oosals in the attached <i>Response Status</i> V I PRINCIPLE. f and additional comp s. 5 <i>P</i> 128 NTT	I file:"ogura-49e.p V bensation for lase <i>L</i> 19 C ot(grant)".	pt". r turn on delay, editor will # [709
Ther Proposed PRC Base appr C/ 56 OGURA, Commen Ther	e is som d Responder POSED ed on og opriately SC Yasuo t Type e is an a commer	e detail prop nse ACCEPT IN ura-49e2.pd fix diagram Figure56-1 E rrow which in thas alread	bosals in the attached Response Status V I PRINCIPLE. f and additional comp s. 5 P128 NTT Comment Status C hame is "Gate.reques	I file:"ogura-49e.p V bensation for lase <i>L</i> 19 C ot(grant)".	pt". r turn on delay, editor will # [709
Ther Proposed PRC Base appr Cl 56 OGURA, Commer Ther This Suggeste	e is som d Responder POSED don ogg opriately SC Yasuo t Type e is an a commer edRemen k of that	e detail prop nse ACCEPT IN ura-49e2.pd fix diagram Figure56-1 E rrow which in thas alread dy	bosals in the attached Response Status V I PRINCIPLE. f and additional comp s. 5 P128 NTT Comment Status C hame is "Gate.reques by been acceptted in the	I file:"ogura-49e.p V bensation for lase <i>L</i> 19 ct(grant)". the D1.0-No.192.	pt". r turn on delay, editor will # [709

C/ 56	SC	Figure56-16	6 P1:	34	L 27	#	704
OGURA, Y	asuo		NTT				
Comment T	Гуре	Е	Comment Status	D			discovery
			, there is an arrow: ted_port,).	" OMP.indic	ation(DA,S	A, subtype	∋=
Suggested How at		<i>dy</i> elete "reques	ted_port"?				
	DSED	nse ACCEPT. Jrams will fix	Response Status and clarify.	w			
<i>CI 56</i> OGURA, Y		Figure56-16	6 P1: NTT	34	L 5	#	703
	OLT re	T eceive a REG /ea REGISTI	Comment Status SISTER_REQ, it ca ER_ACK.	_	T. But there	e is not ca	<i>discover</i> Iculate a RTT
	next lin	e of the "if(s	tate= find_state(Sa ase check the atta				tate.RTT =
	, DSED	nse ACCEPT. Jrams will fix	Response Status and clarify.	W			
C/ 56	SC	Figure56-17	<i>P</i> 1:	35	L12	#	710
OGURA, Y	asuo		NTT				
Comment T	Гуре	Е	Comment Status	D			discover
of that so that	Backo this e	ff is almost e quation cann	ERAL",there is "Ba qual "10", and the ot limit the each va y been accepted in	value of Bac alue of "Back	ckoff_wait is coff" and "B	s between	0 and 2^10,
Suggested	Reme	dy					
			wing equation. eral, Backoff+1)"				
Proposed F	Resnoi	nse	Response Status	w			
i ioposou i	.00000						

Proposed Response Res

C/ 56		gure56-17	P 135	L35	# 714
OGURA,	Yasuo		NTT		
would specif will tu	D1.1, ON not send fication wh	IU will turn the La a "REGISTER_R nen multiple ONU er ON at the sam	EQ" because of it's	"Backoff_wait".I utoDiscovery at t	the same time.All ONUs
Suggeste	dRemedy				
tunr L state I think	.aser OFF Diagram".	when it deside no		STER_REQ in the	n", so that OLT can not e "DiscoveryProcess
Only I	NormalGA	TE:OLT turn on/o	coveryProcessing" a off from "GateProce f from "DiscoveryPr	ssing", and	sing".
There	e is some o	detail proposals ir	n the attached file:"	ogura-49e.ppt".	
Base	POSED A	CCEPT IN PRINC		ion for laser turn	on delay, editor will
<i>CI</i> 56 OGURA, ¹		gure56-18	<i>Р</i> 136 NTT	L	# 706
Comment	Туре		nent Status D ptions, I think of tha	t ONU will proce	<i>discovery</i> ss following behavior.
GATE ONU	E. : It mear send a RE	ns a success of A EGISTER_ACK N	utoDiscovery proce	ess.	ate MPCPDU as the 1st
But th	nere is no o	description in the	Figure56-18;"Disco	overy Processing	Slave State Diagram2".
Suggeste	dRemedy				
How a	about cheo	ck and update the	e Figure56-18.		
Proposed	Response		nse Status W		

1) OMP timeouts at the ONU as no MPCP messages are sent to the ONU's LLID

2) A unicast REGISTER might be sent by the OLT before timeout expires.

<i>CI</i> 56 OGURA, Y		Figure56-18	P 13 NTT	6 L 30	# 705	
	is the b	E lock:"ADDIT as finished.	<i>Comment Status</i> IONAL REG".I hear	-	d ted to add some LLIDs	<i>iscover</i> y s after
Suggested How al			k:"ADDTIONAL RE	G"?		
Proposed I PROP	•	se ACCEPT.	Response Status	w		
<i>CI 56</i> OGURA, Y		Figure56-18	P 13 NTT	6 L 50	# <u>728</u>	
The 4t	olock of h paran		<i>Comment Status</i> e is a "OMP.reques ted_capability", it se	st()".		iscovery
	eing m	odified, "OM	P.request(SA, DA, .ter_capability),)".	subtype=REGIST	ER_ACK,	
Proposed I	Respon		Response Status	w		
C/ 56	SC	Figure56-2	P 11	0 L8	# 736	
OGURA, Y	asuo		NTT			
Comment	Туре	т	Comment Status	D		layering
Contro I think	I" in the	e Figure56-6 s. Because t	Are they same mea	aning? n of the Multiplexir	e is a "Multiplexing MA ng MAC Control sublay is P.110 L1.	
Suggested	Remea	ly				
		same mean MAC Contro		nge words "Multip	oint MAC Control" into)
There Fig 56- "Multip	OSED / is no co 4 and { oint M/	ACCEPT IN onsistency na 56-6 and cor AC control"	Response Status PRINCIPLE. aming the blocks. responding text sho ol does more than i	ould replace "multi	plexing MAC control"	for

(The multipoint MAC control does more than multiplexing.)

CI 56		Figure56-22		44	L13	# 715	
OGURA, Y		-	NTT	-			
would specifi will tur	D1.1, (not ser ication n it's L	nd a "REGIS] when multiple aser ON at th	Comment Status the Laser ON even FER_REQ" becau e ONUs are going e same time, OLT rect collisions even	erytime when th se of it's "Back to do AutoDis r may not be a	coff_wait".It is ver covery at the sar	ry bad ne time.All (
Suggestea	Reme	dy					
			nould turn on/off fr scoveryProcessin		essing", and Disc	coveryDATE	:OLT
the Fig (currer	gure56- nt_grar	22.In the blo	we should delete ck of "START_TX MA_CONTROL.re deleted.	", there is "if" s		veryGATE f	rom
-	OSED	ACCEPT IN	Response Status PRINCIPLE. tion between disc		ock for backoff.		
<i>CI 56 OGURA, Y</i>		Figure56-22	<i>P</i> 1 NTT	44	L14	# 727	
<i>Comment</i> In the		E of the block:	<i>Comment Status</i> "START_TX", the	_	indication()".		gate
This c	ommer	nt has already	been accepted ir	n the D1.0-No.	195.		
Suggested		2					
It shou	uld be "	MA_CONTRO	OL.indication()", I	suppose.			
Proposed PROP	•	nse ACCEPT.	Response Status	W			
C/ 56	SC	Figure56-22	P1	44	L 3 1	# 717	
OGURA, Y	′asuo		NTT				
when a	WAIT to and ho	w to use this	Comment Status , "MA_CONTROL primitive.In the "5 ption", but I canno	request() with 6.3.5.1.5 Mess	ages" there is "tl	he grants ar	
Suggested	Reme	dy					
	OSED	ACCEPT IN	Response Status PRINCIPLE. ved for Draft 1.2	w			

CI 56	SC Fig	gure56-22	P 144	L37	# 711
OGURA,	Yasuo		NTT		
Comment	Type 1	r Com	ment Status D		ç
the er same	nd of ONU ² ONU1.	1-grant and the	head of ONU2-grai		n that OLT may overla are allocated to the
Can (DLT allocat	e grants with o	verlaping?		
			not so much margi ne + IDLE_time + la		
Suggeste	dRemedy				
If two	grants are	overlapping, it	consider the conditions seems difficult to me me , laser_off_time	ake a inequation	t. with some parameter
How a	about chec	k the margin is	greater than IPG(in	iter packet gap).	
Proposed	Response	Resp	onse Status W		
-	POSED RE		e SORT block deal	s with the ONU ar	nd not the OLT.
			5		
Cl 56	SC Fig	gure56-22	P 144	L 38	# <u>716</u>
		gure56-22	P144 NTT	L 38	# 716
Cl 56 OGURA, [*] Comment	Yasuo	_		L 38	# [716
OGURA, Comment In the would speci ONUs	Yasuo <i>Type</i> D1.1, ONI I not send a fication who s will turn it	Com U will turn the L a "REGISTER_ en multiple ONI 's Laser ON at	NTT ment Status D aser ON everytime REQ" because of it Js are going to do	when the "start_ti 's "Backoff_wait". AutoDiscovery at ⁻ may not be able	g me" has come.Even i t is very bad
OGURA, Comment In the would speci ONUs	Yasuo <i>Type</i> D1.1, ONU not send a fication who s will turn it essly so tha	Com U will turn the L a "REGISTER_ en multiple ONI 's Laser ON at	NTT ment Status D aser ON everytime REQ" because of it Js are going to do the same time, OLT	when the "start_ti 's "Backoff_wait". AutoDiscovery at ⁻ may not be able	g me" has come.Even i t is very bad the same time.All
OGURA, Comment In the would speci ONUs succe Suggeste Only	Yasuo <i>Type</i> D1.1, ONU I not send a fication whise swill turn it essly so that <i>dRemedy</i> NormalGA	Com U will turn the L a "REGISTER_ en multiple ONI 's Laser ON at at it will detect c	NTT ment Status D aser ON everytime REQ" because of it Js are going to do the same time, OLT ollisions everytime.	when the "start_ti 's "Backoff_wait". AutoDiscovery at ⁻ may not be able	g me" has come.Even i t is very bad the same time.All
OGURA, Comment In the would speci ONUS succe Suggeste Only shoul If this the Fi MA_C	Yasuo Type D1.1, ONU I not send a fication who s will turn it issly so that dRemedy NormalGA ^T d turn on/o idea will co gure56-22 CONTROL.	Com U will turn the L a "REGISTER_ en multiple ONI 's Laser ON at at it will detect c TE:OLT should ff from "Discove ome true, we sh	NTT ment Status D aser ON everytime REQ" because of it Js are going to do the same time, OLT ollisions everytime. turn on/off from "Ga eryProcessing". nould delete some of "START_TX", there	when the "start_ti 's "Backoff_wait". AutoDiscovery at may not be able ateProcessing", a descriptions about	g me" has come.Even i t is very bad the same time.All to process Discovery nd DiscoveryDATE:it DiscoveryGATE from
OGURA, ' Comment In the would speci ONUs succe Suggeste Only shoul If this the Fi MA_C I think	Yasuo Type D1.1, ONU I not send a fication who s will turn it issly so that dRemedy NormalGA ^T d turn on/o idea will co gure56-22 CONTROL.	Com U will turn the L a "REGISTER_ en multiple ONI 's Laser ON at at it will detect c TE:OLT should ff from "Discove ome true, we sh In the block of indication()" should be delete	NTT ment Status D aser ON everytime REQ" because of it Js are going to do the same time, OLT ollisions everytime. turn on/off from "Ga eryProcessing". nould delete some of "START_TX", there	when the "start_ti 's "Backoff_wait". AutoDiscovery at may not be able ateProcessing", a descriptions about	g me" has come.Even i t is very bad the same time.All to process Discovery nd DiscoveryDATE:it DiscoveryGATE from

P802.3ah Draft 1.0 Comments C/ 56 SC Figure56-22 P144 L39 # 712 C/ 56 OGURA. Yasuo NTT Comment Type E Comment Status D aate Inside of the state:"PROGRAM", ther is a variable:"if request_report". This comment has already been accepted in the D1.0-No.196. SugaestedRemedv I think of that it should be a "if force_report". Proposed Response Response Status W PROPOSED ACCEPT. C/ 56 C/ 56 P148 L # 747 SC Figure56-24 OGURA, Yasuo NTT Comment Type E Comment Status D gate On Figure 56-24:"GATE MPCPDU", there is the octet-length on the right-side of each field.For example, Grant#1 Start time --> 2, Grant#1 Length --> 4. But the length is wrong. Start time should be 4 octets and Length should be 2 octets, so that Grant#1 - Grant#4, Number of octets is inverted "Start time" and "Length". SuggestedRemedy Grant#1: "Start time" should be "4" and "Length" should be "2". Grant#2...4: "Start time" should be "0/4" and "Length" should be "0/2". Proposed Response Response Status W C/ 56 PROPOSED ACCEPT. C/ 56 SC Figure56-25 P150 L35 # 723 OGURA, Yasuo NTT Comment Type E Comment Status D report On Figure 56-25:"REPORT MPCPDU", there is the octet-length on the right-side of each field. There is the number of bytes of "Pad/Reserved" as "0-38". It should be "0-39". SuggestedRemedy "Pad/Reserved" --> "0-39". Proposed Response Response Status W PROPOSED ACCEPT. See # 722

SC Figure56-28 P156 L25 # 726 OGURA. Yasuo NTT Comment Type E Comment Status D discovery On the Figure 56-28, "Pad/Reserved2": The character "2" should be deleted. SuggestedRemedv After being modified, "Pad/Reserved". Proposed Response Response Status W PROPOSED ACCEPT. P114 SC Figure56-5 L 9 # 742 OGURA, Yasuo NTT Comment Type Ε Comment Status D multiplex On figure 56-5, even though multiplexing control reads and writes the "multipoint transmission in progress" variable, the arrow of the variable has only one direction (input). SuggestedRemedy The arrow of "multipoint transmission in progress" should be changed to both directions (input and output). Proposed Response Response Status W PROPOSED ACCEPT. P114 SC Figure56-5 L9 # 733 OGURA. Yasuo NTT Comment Type Т Comment Status D multiplex I think of that the vector:"transmission_in_progress[1..n]" should be deleted from this figure. Because each instance does not use for comunication in the figure 56-6. SuggestedRemedy How about delete the vector: "transmission in progress[1..n]" from Figure 56-5: "Multiplexing Control Service Interfaces"? Proposed Response Response Status W PROPOSED REJECT.

PROPOSED REJECT. Transmission_in_progress is used in Figure 56-11 Add transmission_in_progress[1..n] signal in figure 56-6.

C/ 56 OGURA, `	SC Figure56-6 Yasuo	6 <i>P</i> 114 NTT	L 30	# 743	<i>CI 56</i> Khansari,	SC Table 56-2 Masoud	P 147 Centillium Co	<i>L</i> mmunicat	# 324
	gure 56-6, multiplex	Comment Status D king control interfaces with in ansmitPending[n]" and "trans				ossible to send GATE	<i>comment Status</i> D MPCPDU with zero nun hy there is a need for s		gate
"multi Suggester Add ti contro Proposed PROF Diagra As it o The n transr C/ 56 OGURA, ` Comment Contro I think and th Suggester If they	point_transmission dRemedy he arrow indicating ol and each instance <i>Response</i> POSED ACCEPT. am intended to be causes confusion in nultipoint_transmission_in_progress SC Figure56-(Yasuo <i>Type</i> T e is a "Multipoint Mu ol" in the Figure56-(it is Yes. Because the OMP sublayer dRemedy	 a_in_progress". "multipoint_transmission_in are 1n. <i>Response Status</i> W simplified for clarity. nstead, it will be modified for sion_in_progress is generate as [1n] signals. <i>P</i> 117 <i>Comment Status</i> D AC Control" in the Figure56-6. 6. Are they same meaning? a there is a "Operation of the" in the body of Draft1.1, i 	_progress" betw correctness. ed by the OR fun <i>L</i> 25 2. But there is a Multiplexing MA 's location is P.	reen multiplexing metion of # 737 multiplex "Multiplexing MAC AC Control sublayer, 110 L1.	Suggester If it is If zero (e.g. f becor In ger There draft. Proposed PROF GATE Text v C/ 56 Sio Peng Comment The v Figure Suggester Chan	dRemedy intended as a keep-ali o grant GATE message Pad/Reserved bytes sh nes optional). ieral, we need to have are many ways to do <i>Response Re</i> POSED ACCEPT IN P messages with zero g vill be changed to read <i>SC</i> Table 56-2 GOI <i>Type</i> E <i>C</i> alue of number of gran a 56-24 <i>dRemedy</i> ge the value of numbe	ve, Grants with zero du es are allowed then mak iould read 11-39 and als a coherent approach to that at many layers, and esponse Status W RINCIPLE. grants are not allowed. 1 to 4. P147 Institute for C comment Status D its field in Table 56-2 is r of grants from 0-4 to 1	ration achieve th ke the required c so Grant #1 Star issues regardin d we need to add <i>L</i> 7 communic not consistent w	thanges in Figure 56-24 tt time and Length ng keep-alive messages. dress this in the next # <u>896</u> gat
	Response POSED ACCEPT II	Response Status W N PRINCIPLE.				Response Re POSED ACCEPT.	P151	L14	# 730
<i>Cl</i> 56 OGURA, `	SC Figure56-8	8 <i>P</i> 117 NTT	L17	# 738	C/ 56 OGURA, ` Comment	lasuo	NTT	L14	# [130 discovery
Comment		Comment Status D		multiplex	disca future	d these received pack	on when flag is Reserve et with Reserved flag be current OLT(ONU) ado	ecause they will	OLT(or ONU) should be transmitted from innot understand how to
"Cont Proposed	-	/Multiplexer Service Interfact Interface". <i>Response Status</i> W	e" of the Figure5	56-8, it should be a	Suggester In the cell of Proposed PROF Text t	dRemedy case of "flag == Rese "comment". Response Re POSED ACCEPT IN P	esponse Status W		acket is discarded." in the n transmission and

Page 90 of 190 *Cl* **56** *SC* **Table56-4**

C/ 56	SC Table56-5	P153	L13	# 731	C/ 57	SC 1.3	P164	L 32	# 791
OGURA, Y		NTT			Dolors, Sal		Broadcom		-
Comment	• •	Comment Status D			Comment				p2pe
discare	d these received pa	otion when flag is Reserved acket with Reserved flag be	cause they will	be transmitted from			rts more things than P2PE. It c ess information in the preamble		22 in that it extends it to
	nese packtes.	nat current OLT(ONU) adop	tted to D1.1 ca	nnot understand now to	Suggested				
Suggested	•				replace	without P	2PE" for "without preamble ext	tension"	
In the		served", how about add thi	s sentence: "Pa	cket is discarded." in the	Proposed I PROP	•	Response Status W		
Text to	, OSED ACCEPT IN	Response Status W PRINCIPLE. arly state that reserved field	ds are ZERO or	transmission and	sugges perhap	ts that this s we should	istence to support P2PE or pre clause supports other types of d also change the name of the extensions for the purpose of	emulation service clause to simply a	es as well. For this reason, advertise the fact that it
CI 57	SC	P163	L1	# 329	C/ 57	SC 2		L39	# 328
Khansari, I		Centillium Cor		" 323	Khansari, N			Communicat	# 320
Comment		Comment Status D		p2pe	Comment		Comment Status D	Communicat	p2pe
and so Suggested	ometimes it is used IRemedy	etimes PLS service interfact without the index. Please b es all through Clause 57.		dex J, e.g. Figure 57-2,	Does M Can th proces	lode-m cor e same por sed through	m and Mode-n needs to be cla responds to the Mode of the po t processes both P2P and broa n separate port.	ort receiving the fra	ame with (Mode-n, ID-n)?
Proposed	Response	Response Status W			Suggested	-	a agation and make the require	delarifications	
PROP	OSED ACCEPT IN	PRINCIPLE.					s section and make the require	ed clarifications.	
See re	esolution to comme	nt #164.			Proposed I PROP	•	Response Status W EPT IN PRINCIPLE.		
<i>CI</i> 57 Dolors, Sa	SC 1 la	P164 Broadcom	L16	# 790			is concept has not been introd t is being considered for inclus		or the reader to
		Comment Status D a general filtering of frames	allowing to sup	<i>p2pe</i> port P2PE, SE and SCB					
Suggested Add te	<i>IRemedy</i> ext at teh end of ser	itence k)							
" and t	he emulation servio	ce (P2PE, SE, SCB) desire	d".						
Proposed PROP	Response OSED ACCEPT IN	Response Status W PRINCIPLE.							
these		nulation services? If this filt he intention of this clause to	0						

Page 91 of 190 C/ 57 SC 2

	SC 2.2	P168	L	# 792
Dolors, Sa	ala	Broadcom		
Comment	Type TR	Comment Status D		p2pe
l assu interp		s the general filtering of frames	s. However, I f	ind it very difficult to
the ot		ring the fields of two tags (n an ID of the received MAC. Howe		
Suggeste	dRemedy			
Pleas	e clarify. It would	d be helpful using the notation	that we have ι	used so far.
	Response	Response Status W		
l've le	earned the follow	ing:		
		the received LLID he node's provisioned LLID		
mode				
ID - w ID so I fully	then mode = 0, it the source of the agree this need	address, 1 = broadcast addres t indicates the destination ID. v e frame can choose to ignore it s clarification in the document.	vhen mode = ´ t.	
ID - w ID so I fully <i>CI</i> 57	then mode = 0, it the source of the agree this needs SC 2.2	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169	when mode = ²	I, it indicates the source # 793
ID - w ID so I fully <i>CI</i> 57 Dolors, Sa	then mode = 0, it the source of the agree this needs SC 2.2 ala	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169 Broadcom	vhen mode = ´ t.	# <mark>793</mark>
ID - w ID so I fully C/ 57 Dolors, Sa Comment Figure	when mode = 0, in the source of the agree this needs SC 2.2 ala Type TR e 57-3 should ad	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169	vhen mode = ² t. <i>L</i> er the preamb	# <mark>793</mark> p2pe
ID - w ID so I fully Cl 57 Dolors, Sa Comment Figure SFD.	when mode = 0, in the source of the agree this needs SC 2.2 ala Type TR e 57-3 should ad	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169 Broadcom <i>Comment Status</i> D Id the filtering operation just aft	vhen mode = ² t. <i>L</i> er the preamb	# <mark>793</mark> p2pe
ID - w ID so I fully Cl 57 Dolors, Sa Comment SFD. Suggeste Add s	then mode = 0, it the source of the agree this needs SC 2.2 ala <i>Type</i> TR e 57-3 should ad To know if this fu <i>dRemedy</i>	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169 Broadcom <i>Comment Status</i> D Id the filtering operation just aft rame should be received or dis Preamble and SFD to decide v	vhen mode = ^ t. <i>L</i> er the preamb carded.	# 793 p2pe ole state and before the
ID - w ID so I fully Cl 57 Dolors, Sa Comment Figure SFD. Suggeste Add s define Proposed	then mode = 0, it the source of the agree this needs SC 2.2 ala <i>Type</i> TR e 57-3 should ad To know if this fu <i>dRemedy</i> state in between ed by filtering rule <i>Response</i>	t indicates the destination ID. v e frame can choose to ignore it s clarification in the document. P169 Broadcom <i>Comment Status</i> D Id the filtering operation just aft rame should be received or dis Preamble and SFD to decide v	vhen mode = ^ t. <i>L</i> er the preamb carded.	# 793 p2pe ole state and before the

CI 57	SC	57	I	[⊃] 161	L1	# 618	
Bemmel, \	/incent		Alle	optic			
Comment	Туре	Е	Comment Stat	us D		p	2pe
Title c	ontains	a page b	reak and is split be	etween 2 pa	ages 161 and 16	2	
Suggested fix it	dRemed	ły					
Proposed PROF		nse ACCEPT	Response State	ıs W			
CI 57	SC	57		[⊃] 163	L	# 919	
Tom Math	еу		Ind	ependent			
Comment	Туре	т	Comment Stat	us D		p	2pe
			dditions to Clause elete half-duplex te				
Suggested	dRemed	dy					
ider ider	ntify tex ntify tex	t which is t which is	method to: added, changed, deleted, such as h	alf-duplex.			
ider ider ider	ntify tex ntify tex ntify tex	t which is t which is t which is	added, changed,	•			
ider ider ider Proposed	ntify tex ntify tex ntify tex <i>Respor</i>	t which is t which is t which is nse	added, changed, deleted, such as h	•			
ider ider <i>Proposed</i> PROF	ntify tex ntify tex ntify tex <i>Respor</i> POSED e that th	t which is t which is t which is nse ACCEPT here need	added, changed, deleted, such as h <i>Response State</i> IN PRINCIPLE.	us W	means for a rea	der to determine the gladly accepted.	
ider ider ider Proposed PROF I agre differe	ntify tex ntify tex ntify tex <i>Respor</i> POSED e that th ences be	t which is t which is t which is nse ACCEPT here need	added, changed, deleted, such as h <i>Response Statu</i> IN PRINCIPLE. s to be some straig and 35. I'm worki	us W	means for a rea		
ider ider ider Proposed PROF I agre- differe CI 57	ntify tex ntify tex <i>Respor</i> POSED e that thences be SC	t which is t which is t which is nse ACCEPT here need etween 57	added, changed, deleted, such as h <i>Response State</i> IN PRINCIPLE. s to be some straig and 35. I'm worki	us W ghtforward ng on this.	means for a rea Ideas would be	gladly accepted.	
ider ider <i>Proposed</i> PROF	ntify tex ntify tex Respor POSED e that th ences be SC /incent	t which is t which is t which is nse ACCEPT here need etween 57	added, changed, deleted, such as h <i>Response State</i> IN PRINCIPLE. s to be some straig and 35. I'm worki	us W ghtforward ng on this. P 163 optic	means for a rea Ideas would be	gladly accepted. # <mark>614</mark>	2pe
ider ider ider PROF I agre- differe CI 57 Bemmel, N Comment PLS is	ntify tex ntify tex ntify tex <i>Respor</i> POSED e that the ences be SC Vincent <i>Type</i> s not sh	t which is t which is t which is nse ACCEPT here need etween 57 57.1 T	added, changed, deleted, such as h <i>Response Statt</i> IN PRINCIPLE. s to be some straig and 35. I'm worki <i>i</i> All <i>Comment Stat</i> e figure, but referre	us W ghtforward ng on this. P163 optic us D	means for a rea Ideas would be <i>L</i> 27	gladly accepted. # <mark>614</mark>	2pe
ider ider ider PROF I agre- differe CI 57 Bemmel, N Comment PLS is	ntify tex ntify tex ntify tex <i>Respor</i> POSED e that thences be SC /incent <i>Type</i> s not sh e 35-1 for	t which is t which is t which is ase ACCEPT here need etween 57 57.1 T own in the or an exar	added, changed, deleted, such as h <i>Response Statt</i> IN PRINCIPLE. s to be some straig and 35. I'm worki <i>i</i> All <i>Comment Stat</i> e figure, but referre	us W ghtforward ng on this. P163 optic us D	means for a rea Ideas would be <i>L</i> 27	gladly accepted. # <mark>614</mark>	 2pe
ider ider ider Proposed PROF I agre- differe Cl 57 Bemmel, N Comment PLS is Figure Suggested	ntify tex ntify tex ntify tex <i>Respor</i> POSED e that thences be SC Vincent <i>Type</i> s not sh e 35-1 for <i>dRemed</i>	t which is t which is t which is ase ACCEPT here need etween 57 57.1 T own in the or an exar	added, changed, deleted, such as h <i>Response Statt</i> IN PRINCIPLE. s to be some straig and 35. I'm worki <i>i</i> All <i>Comment Stat</i> e figure, but referre	ghtforward ng on this. P163 optic us D ed to later in	means for a rea Ideas would be <i>L</i> 27 h the text (e.g., 5	gladly accepted. # <mark>614</mark>	2pe

CI 57	SC	57.1		P 163	L6	# 613	
Bemmel, V	Vincent		ŀ	Alloptic			
Comment	Туре	т	Comment St	tatus D			p2pe
Figure	e 57-1 a	pplies to	the OLT. Please	e clarify that,	and how this is o	one at the ONU.	
Suggeste		-					
"Figur	dify Line e 57-1 s eference	shows th	ne reationship of the at the OLT"	he Reconcilia	ation sublayer ar	d GMII to the ISO	/IEC
2. Ado	d a note	under F	igure 57-1				
3. Cla	rify that	the ON	U model colapses	to a single s	tack above the F	RS layer	
Proposed	Respor	nse	Response St	atus W			
PROF	POSED	ACCEP	T IN PRINCIPLE.				
						is stack collapses	
to be	mentior	ned, too'				ttached. Does this	s need
	mentior SC)	P163	L8	# 165	s need
to be C/ 57	mentior SC mio	ned, too')	P 163 Sumitomo Ele	L8		p2pe
to be CI 57 Daido, Fu Comment I belie Figure duple:	mention SC mio <i>Type</i> eve clau e 57-1 s x are no	57.1 T se 57 su hould sl ot suppo	Comment Si Comment Si Opports only 1000 Now that explicitly.	P 163 Sumitomo Ele tatus D BASE-PX de And I believ 57, the curre	<i>L</i> 8 ectric Indu fined in clause 5 ve that the carrie int description as		p2pe
to be CI 57 Daido, Fu Comment I belie Figure duple extens Suggestee	mentior SC mio Type eve clau e 57-1 s x are no sion and dRemed	57.1 T se 57 su hould sh ot suppo d half du dy	<i>Comment</i> Si poports only 1000 now that explicitly. rted in the clause plex of clause 57	P 163 Sumitomo Ele tatus D BASE-PX de And I believ 57, the curre makes reade	<i>L</i> 8 ectric Indu fined in clause 5 ve that the carrie int description as er confusing.	# 165 8 as PMD. So the r extension and ha	p2pe
to be CI 57 Daido, Fu Comment I belie Figure duple extens Suggestee	mentior SC mio Type eve clau e 57-1 s x are no sion and dRemed	57.1 T se 57 su hould sh ot suppo d half du dy	Comment Si Comment Si pports only 1000 now that explicitly. rted in the clause	P 163 Sumitomo Ele tatus D BASE-PX de And I believ 57, the curre makes reade	<i>L</i> 8 ectric Indu fined in clause 5 ve that the carrie int description as er confusing.	# 165 8 as PMD. So the r extension and ha	p2pe
to be CI 57 Daido, Fui Comment I belie Figure duple: exten: Suggestee Repla Delet	mentior SC mio Type eve clau e 57-1 s x are no sion and dRemed ace "100 re the se	T 57.1 T se 57 su hould sl bt suppo d half du dy 00 Mb/s" entence	Comment Si Comment Si opports only 1000l ow that explicitly. rted in the clause plex of clause 57 in Figure 57-1 wit	P 163 Sumitomo Ele tatus D BASE-PX de And I believ 57, the curre makes reade h "1000BAS he copper, the	L8 ectric Indu fined in clause 5 ve that the carrie int description as er confusing. E-PX". e carrier extensio	# 165 8 as PMD. So the r extension and ha sociated with the on and half duplex	p2pe alf carrier

CI 57	SC	57.1	P1		L 8	# 164
Daido, Fum	io		Sumi	tomo E	lectric Indu	
	Л, MII,		Comment Status PLS don't exist in th e are redundant for	e block	diagram of Figure 57-1.	p2 57-1. It seems that
Suggestedi The Ab		•	I, MII, MAU and PL	S in Fig	gure 57-1 should be	e deleted.
exampl contain	e, the s AUI	line 44 of p and PLS sł	age 164 in "57.1.4	Allocati this se	ion of functions", the ntence will not be d	hout this clause. For e sentence which eleted, please replac
Proposed F PROP(•		Response Status N PRINCIPLE.	w		
Remov	e the A	bbreviatio	ns from Figure 57-1			
Remov	e 57.1	4 complete	ely.			
<i>CI 57</i> Yajima, Yus		57.1.1	P1 Hitac	••	L 15 munication	# 34
Comment 7 Typo.	Гуре	Е	Comment Status	D		p2
Suggestedi Change		ly ted' to 'exti	acted'.			
Proposed F PROPO		se ACCEPT.	Response Status	w		
<i>CI</i> 57 Brown, Ben		57.1.1	P1 AMC		L16	# 374
Comment 7 misspe		Е	Comment Status	D		p2
Suggested		•	d" with "extracted"			
•••	, itepic					

			P802.3ah D	raft 1.0 Comments			
Cl 57 SC 57.2.1 Bemmel, Vincent	P 165 Alloptic	L11	# 616	C/ 57 SC 57.2.1.2.3 Daido, Fumio	P 166 Sumitomo Elec	L 35 ctric Indu	# 166
Not clear how Figure 57-2 a	Comment Status D applies to an ONU		p2pe		Comment Status D st sentence is not appropriat AC sublayer entities in case		
SuggestedRemedy add note to clarify how Figu Proposed Response R PROPOSED ACCEPT IN F See resolution to #613.	Pesponse Status W	J		SuggestedRemedy I would like to show the "This primitive is genera	example as the modified para ted by the Reconciliation sub nsferred on RXD<7:0> will re	agraph below. layer to MAC j	while RX_DV is
C/ 57 SC 57.2.1.1.3 Yoshimura, Minoru	<i>P</i> 166 NEC	L	# 132	Proposed Response PROPOSED ACCEPT.	Response Status W		
Comment Type T (Variable transmit_PLS user 57.2.1.4.3, 57.2.1.7.3 are n		e_PLS used in 5	р2ре 57.2.1.2.3, 57.2.1.3.3,	Cl 57 SC 57.2.1.3 Bemmel, Vincent	P 166 Alloptic	L 35	# 615
SuggestedRemedy Add definition.	esponse Status W			Comment Type T PLS_DATA_[j].indicate how this works in the PC SuggestedRemedy Clarify	Comment Status D is generated to all MAC subla DN.	ayer entities in t	p2pe he network. Not clear
See resolution to #164 Cl 57 SC 57.2.1.1.3	P166	L5	# 375	Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.		
Brown, Benjamin Comment Type T (missing index	AMCC Comment Status D		p2pe	See resolution to #166. Cl 57 SC 57.2.1.3 Brown, Benjamin	<i>Р</i> 166 АМСС	L 48	# 376
SuggestedRemedy Replace "MAC sublayer" w	th MAC j sublayer"				Comment Status D -duplex signal only. I didn't th	iink half-duplex	p2pe was supported for
Proposed Response R PROPOSED ACCEPT.	esponse Status W			P2MP EFM so why both SuggestedRemedy Remove 57.2.1.3	er changing this?		
				The same thing applies Proposed Response PROPOSED ACCEPT.	to 57.2.1.4. Remove it as we Response Status W	ΙΙ.	
				See resolution to #165.			

				P80	02.3ah D	raft 1.0 Co	mments				
CI 57 SC 57 Brown, Benjamin	7.2.2	P168 AMCC	L 45	# 377		C/ 57 Brown, Be	SC 57 enjamin	.2.2	P168 AMCC	L 4648	# 378
iff isn't defined		nt Status D			p2pe		ribe Mode-	x and ID	Comment Status D D-x before using them. This is be description.	a brand new co	p ncept and the
SuggestedRemedy Replace "iff" wit	th "if and only if"					Suggeste	dRemedy		ion for Mode-x and ID-x.		
Proposed Response PROPOSED A		se Status W							e <> with the sign for not equa	I from Table 21-	1.
C/ 57 SC 5 Daido, Fumio	7.2.2	P168 Sumitomo Ele	L 46 ectric Indu	# 167			Response POSED AC		Response Status W N PRINCIPLE.		
Comment Type	T Comme	nt Status D			p2pe	See r	esolutions	to #792	& #793.		
The definition o Figure 57-3 is r	f Mode and ID is no not clear.	ot written here. Ar	nd the relationshi	p to "lookup failed	d" of	Cl 57 Yoshimur	SC 57 a Minoru	.2.3	<i>P</i> 169 NEC	L	# 133
Proposed Respons	to explain those ne	se Status W	57.2.2.			Comment Funct Suggeste	t Type 1 tion 'CRC() dRemedy)' is not	Comment Status D defined in this clause.	ς.	ρ
See resolutions	s to #792 & #793.					Proposed	Response	;	Response Status W		
CI 57 SC 57	7.2.2	P 168	L 46	# 617		PRO	POSED AC	CEPT I	N PRINCIPLE.		
Bemmel, Vincent		Alloptic				See r	esolution to	o #793.			
Not clear what	T Comme 'Mode-m' really is. Mode-m = 0/1 really		er is 'n' and inter	face number is 'm	<i>p2pe</i> I', what						
SuggestedRemedy Clarify or correc											
Proposed Response PROPOSED A	e Respons	se Status W PLE.									
See resolution	to #792.										

C/ 57 SC 57.2.3	P169	L1	# 168	C/ 57 S	SC 57.2.4.2	.1	Pfigure 56-1	L	# 99011
Daido, Fumio	Sumitomo Elect	ric Indu		Jaeyeon Song			Samsung Electr	onics	
Comment Type T I can't understand what change the title name a failed, to make reader e SuggestedRemedy	Comment Status D does "control registers" in the nd split 57.2.3 and add definition easy to understand.	title of 57.2.3 on of state va	riables, such as lookup	Comment Type In table 56 In baseline represents In EPON, an SuggestedRer We should through th of support The possil LLID by ha filtering is	e TR -1 "preamble we agreed the two mono no protocol d we should nedy d define multicas ole solution ash function possible like are presenta	the LLID considered, broadcast a of supporting m I distinguish mu ticast LLID. In a overy process. It t traffic.	Status R us the 2 bytes o st of a mode- bit and unicast, not r ulticast traffic ex lticast traffic from ddition, multicast t remains in high ulticast address ng. It is simple, r	f preamble is and PHY_ID nulticast. ists. But, mu broadcast. t LLID don't h layer protoc	D1. s allocated to LLID. fields. The mode-bit tricast traffic will be in the have to be allocated ol. we just define the hook can make the multicast MAC and RS layer
PROPOSED ACCEPT. Also, see resolution to #				REJECT. Multicast M	MAC addres	s filtering is per	formed by higher	r layers.	
CI 57 SC 57.2.3	P169170	L	# 134	CI 57 S	SC 57.2.5.2		P 171	L 33	# 594
roshimura, Minoru	NEC			Murakami, Ker	ı		Mitsubishi Elect	ric Cor	
SuggestedRemedy Add definition. Proposed Response PROPOSED ACCEPT	-	ot defined.	p2pe	function. T In both case In case of However, delimiter w Please set	hble may be he PCS per se, SOP coo 8 octets lon in case of 7 hich can ind e the attatch	forms with 2 oc de substitute for g, SFD can be t octets long, SF dicate start of p	ng on the transm tets timing. the first byte. transparently tran D is overwritten reamble.	nsferred to th	p2pe because of the PCS he receiving side. de. As a result, there is no
See resolutions to #793	3 & #168.			SuggestedRer					
				SFD shoul Peamble (and 2nd or Please set	ld be 3 octer CRC should ctets should e the attatch	be calculated of be excluded.	-	m 3rd to 7th	octets in preamble. 1st
				Proposed Res	ponse	Response S	Status W		
				PROPOSE	ED ACCEPT	IN PRINCIPLE			
				I haven't y	et seen the	proposal but I a	gree with the co	ncepts you've	e outlined here.

C/ 57 SC 57.2.5.2.1	P 171	L 29	# 381	C/ 57 S	SC 57.2.5.2.2	2 P 172	L17	# 170
Brown, Benjamin	AMCC			Daido, Fumio		Sumitomo	Electric Indu	
Comment Type E bad word(s)	Comment Status D		p2pe	Comment Typ The order		Comment Status D hission for the LLID and the	e preamble CRC ir	p2pe n a octet is not clear. In
SuggestedRemedy Replace "fortransition" wi	th "for transmission"			first excep		, I believe the order of bit t aly the FCS is most signific 2002.pdf.		
Proposed Response PROPOSED ACCEPT.	Response Status W					calculate CRC 8 bits is not It is not clear the compler		
C/ 57 SC 57.2.5.2.1	P171	L 29	# 169	SuggestedRer	nedy			
Daido, Fumio	Sumitomo Ele	ectric Indu				n the order of bit transmise location of bit 15 and bit 0		
Comment Type E Typo	Comment Status D		p2pe		shown in Tab			
Τγρο				The proce		ulate the preamble CRC 8		led in this clause like
SuggestedRemedy				"3.2.8 Fra	me Check Se	equence (FCS) field" in 802	2.3-2002.pdf.	
,	th "for transition". The space	ce needs to be in:	serted between two	Proposed Res	ponse	Response Status W	2.3-2002.pdf.	
Replace "fortransition" wi words. Proposed Response	Response Status W	ce needs to be in:	serted between two	Proposed Res PROPOSI	ponse	Response Status W IN PRINCIPLE.	2.3-2002.pdf.	
Replace "fortransition" wi words.	Response Status W I PRINCIPLE.	ce needs to be in:	serted between two	Proposed Res PROPOSI See resolu Cl 57	ponse ED ACCEPT ution to #385.	Response Status W IN PRINCIPLE.	L 34	# 35
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN	Response Status W I PRINCIPLE.	ce needs to be in: L 46	serted between two # 385	Proposed Res PROPOSI See resolu CI 57 Yajima, Yusuk Comment Typ	ponse ED ACCEPT ution to #385. SC 57.2.5.2.2 e e E	Response Status W IN PRINCIPLE. 2 P 172 Hitachi Con Comment Status D	L 34 mmunication	p2pe
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN Replace with "for transmi Cl 57 SC 57.2.5.2.1	Response Status W I PRINCIPLE. ssion" P171			Proposed Res PROPOSI See resolu CI 57 Yajima, Yusuk Comment Typ	ponse ED ACCEPT ution to #385. SC 57.2.5.2.2 e e E Note (C) for	Response Status W IN PRINCIPLE. 2 P172 Hitachi Con	L 34 mmunication	p2pe
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN Replace with "for transmi Cl 57 SC 57.2.5.2.1 Brown, Benjamin Comment Type T It is customary to provide	Response Status W I PRINCIPLE. ssion" P171 AMCC	L 46 AC CRC) or a sh	# 385 p2pe ift register	Proposed Res PROPOSI See resolu CI 57 Yajima, Yusuk Comment Typ The Third	ponse ED ACCEPT ution to #385. 6C 57.2.5.2.2 e e E Note (C) for [*] PD'.	Response Status W IN PRINCIPLE. 2 P 172 Hitachi Con Comment Status D	L 34 mmunication	p2pe
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN Replace with "for transmi Cl 57 SC 57.2.5.2.1 Brown, Benjamin Comment Type T It is customary to provide implementation (Clause 2 SuggestedRemedy	Response Status W I PRINCIPLE. ssion" P171 AMCC Comment Status D a reference (Clause 3's M 19's scrambler & descramb	L 46 AC CRC) or a sh ler) when specify	# 385 p2pe ift register ring a polynomial	Proposed Res PROPOSI See resolu CI 57 S Yajima, Yusuk Comment Typ The Third octet of SI SuggestedRer Proposed Res	ponse ED ACCEPT ution to #385. SC 57.2.5.2.2 e e E Note (C) for PD'. nedy ponse	Response Status W IN PRINCIPLE. 2 P 172 Hitachi Con Comment Status D	L 34 mmunication	p2pe
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN Replace with "for transmi Cl 57 SC 57.2.5.2.1 Brown, Benjamin Comment Type T It is customary to provide implementation (Clause 4 SuggestedRemedy Add an implementation si through and the CRC-8 g	Response Status W I PRINCIPLE. ssion" P171 AMCC Comment Status D a reference (Clause 3's M 19's scrambler & descramb	L 46 AC CRC) or a sh ler) when specify	# 385 p2pe ift register ring a polynomial	Proposed Res PROPOSI See resolu Cl 57 S Yajima, Yusuk Comment Typ The Third octet of SF SuggestedRer Proposed Res PROPOSI	ponse ED ACCEPT ution to #385. SC 57.2.5.2.2 e e E Note (C) for PD'. nedy ponse	Response Status W IN PRINCIPLE. 2 P 172 Hitachi Con Comment Status D Table 57-3 should be char Response Status W IN PRINCIPLE.	L 34 mmunication	p2pe
Replace "fortransition" wi words. Proposed Response PROPOSED ACCEPT IN Replace with "for transmi Cl 57 SC 57.2.5.2.1 Brown, Benjamin Comment Type T It is customary to provide implementation (Clause 4 SuggestedRemedy Add an implementation si through and the CRC-8 g	Response Status W I PRINCIPLE. ssion" P171 AMCC Comment Status D a reference (Clause 3's M 49's scrambler & descramb hift register figure to show l tets generated. Response Status W	L 46 AC CRC) or a sh ler) when specify	# 385 p2pe ift register ring a polynomial	Proposed Res PROPOSE See resolu Cl 57 S Yajima, Yusuk Comment Typ The Third octet of SF SuggestedRer Proposed Res PROPOSE Change to	ponse ED ACCEPT ution to #385. SC 57.2.5.2.2 e e E E Note (C) for PD'. medy ponse ED ACCEPT	Response Status W IN PRINCIPLE. 2 P172 Hitachi Con Comment Status D Table 57-3 should be char Response Status W IN PRINCIPLE. of SPD"	L 34 mmunication	p2pe

C/ 57 SC 57.2.5.2.2 P172 L42 # 384 Brown, Benjamin AMCC	C/ 57 SC Figure 57-3 P169 L1 # 920 Tom Mathey Independent
Comment Type T Comment Status D p2p	
What happens when the first byte of preamble is discarded by the TX PCS in order to align to even? How does the receive RS find the the LLID/CRC-8? I know the first byte is	Many variables such as receive_PLS, lookup, CRC(preamble), are used in the state diagram without a definition and/or supporting text.
assumed to exist for the purpose of calculating the CRC-8.	SuggestedRemedy
SuggestedRemedy	ADD.
Describe exactly how these fields are located by the receive RS. In case there is no clean way to do this, perhaps I can suggest a special value used in octet 4 to tell the receive RS that the LLID follows. That way, the receive RS simply looks for this octet then takes the LLID and CRC-8 from the next 3 bytes.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W	See resolution to #793.
PROPOSED REJECT.	C/ 57 SC Figure 57-3 P169 L1 # 922
	Tom Mathey Independent
See resolution to #594.	Comment Type T Comment Status D p2p
C/ 57 SC Figure 57-3 P 169 L # 326 Khansari, Masoud Centillium Communicat	Exit from block COLLECT seems strange. One exit from block COLLECT is labeled UCT, another is labeled RX_DV == true. This can not be.
Comment TypeEComment StatusDp2pVariables, functions of the receive and transmit state diagrams in Figures 57-3 and 57-4	De SuggestedRemedy Resolve.
needs to be spelled out!	Proposed Response Response Status W
SuggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE.
Be consistent in using state-machine and state diagram. Clause 56 uses state diagram where as Clause 57 uses state-machine.	See resolution to #793.
Proposed Response Response Status W	
PROPOSED ACCEPT IN PRINCIPLE.	Cl 57SC Figure 57-4P170L# 327Khansari, MasoudCentillium Communicat
See resolution to #793.	Comment Type T Comment Status D p2p
	CRC calculation function of the preamble bytes should be added in the PREAMBLE state.
CI 57 SC Figure 57-3 P169 L1 # 921 Tom Mathey Independent	SuggestedRemedy
	Please make the appropriate changes
Comment Type T Comment Status D p2p State diagram uses terms not defined by 802.3 in Figure 1-2 or extensions of 21-5.	Proposed Response Response Status W
	PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy Do not use such terms as "==", use assignment within a block.	One resolution to #700
Do use "=" for exit conditions from a block. Scrub entire clause for conformance to state diagram requirements.	See resolution to #793.
Proposed Response Response Status W	
PROPOSED ACCEPT IN PRINCIPLE.	
See resolution to #793.	

p2pe

p2pe

p2pe

CI 57 SC F Brown, Benjamin	igures 57-3 & 4	P 169 AMCC	L1	# 379	C/ 57 Tom Mathe	SC Table 57-	1 P171 Independent	L 42	# 92	3
Before jumping	into the state mach			<i>p2pe</i> s of variables and eferences the figures.		ore work is need	Comment Status D ed for the CRC.			p2p
SuggestedRemedy	,	-		-	Suggested Include		ely describe the crc operatio	n, such as in	iitial state.	
	follow the convention			the conventions of 21.5 out describing new	Proposed I PROP	Response OSED ACCEPT	Response Status W			
Proposed Respons PROPOSED A	e Response CCEPT IN PRINCIP	e Status W PLE.			See re	solution to #385.				
See resolution	to #793.				C/ 57 Tom Mathe	SC Table 57-	3 P172 Independent	L18	# 92	4
C/ 57 SC G Brown, Benjamin	ieneral	P AMCC	L	# 373	Comment [®] Text st	51	Comment Status D	ceived".		p2p
Comment Type	T Commer	nt Status D		p2pe	Suggested	Remedv				
variations from		5. Isn't the curre	nt Clause 35 a sp	asier to determine the becial case of 1 MAC to	Add te octet is	xt to standard to s present or miss	5	mentators for	how to determine	if the first
SuggestedRemedy					Proposed I PROP	Response OSED ACCEPT	Response Status W			
Merge this into		o			See re	solution to #594.				
Proposed Respons PROPOSED R	•	e Status W			Cl 57	SC Table 57-	3 P172	L 30	# 38	3
Desire is to kee	ep P2MP extensions	outside general	flow of GE.		Brown, Ber	njamin	AMCC		_	
C/ 57 SC T Brown, Benjamin	able 57-1	P171 AMCC	L 39	# 382	Comment The 3r	51	Comment Status D alues should use a value of	0 for RXD7.		p2µ
Comment Type		nt Status D		p2pe	Suggested Fix this					
Why are 16 bits	s used for the 2 octe	t SPD field but o	nly 8 bits for the	3 octet reserved field?	Proposed I	Response	Response Status O			
How does the l	LID field map to LL	ID[15:0] from Tab	ole 57-2?							
	e a table for this sec			CRC-8 could be as in page 171, line 23.	C/ 58 John Georg	SC 14.2.3	P 194 OFS	L 33	# 89	0
Proposed Respons	· · ·	e Status W			Comment [®] Redun	<i>Type</i> E dant with 58.14.1	Comment Status D			
See resolution					Suggested Delete	Remedy 58.14.2.3				
					Proposed I PROP	Response OSED ACCEPT.	Response Status W			
				US: D/dispatched A/accept	ed R/rejected	SORT ORDER	: Clause, Page, Line, Subc	lause	Page 99 of 190	
ESPONSE STAT	US: O/open W/writt	ten C/closed U	/unsatisfied Z/wi	thdrawn					CI 58 S	C 14.2.3

CI 58 Tom Murph	SC 58.13.1	P 193 Infineon	L13	# 912	CI 58 Swanson, S	SC 58.2.1 Steve	P179 Corning Incor	L14	# 473
Comment 7 The Ch	<i>Type</i> TR nannel Insertion L	Comment Status D Loss Tables need to be comp approached, the fibre attenua			Comment		Comment Status D		
	ided to generate	discussion of fibre characteri			S <i>uggested</i> Add di	-	0 1000BASE-EX block diagram	n in Figure 59-1.	
Agree	on the fibre atten	uation, then complete these	ables for the nex	xt meeting.	Proposed I	•	Response Status W		
-	OSED ACCEPT I	Response Status W IN PRINCIPLE. t harmonization discussionat	meeting		The ac	ditional diagram	n would have to represent the come of Signal Detect discussi		
Cl 58 Tom Murph	SC 58.13.1	P 193 Infineon	L16	# 910	C/ 58 Tom Murph	SC 58.2.1	P179 Infineon	L 4	# 872
B. This	DN link budgets a is not immediate this assumption	Comment Status D are based on minimum losses bly apparent from the existing			Comment Patch Suggested x=0.5,	cord length has IRemedy	Comment Status D been agreed upon		
Include Proposed F	a minimum loss	value in Table 18 and 19, 5 <i>Response Status</i> W	and 10 dB, respe	ectively	Proposed I	Response OSED ACCEP1	Response Status W IN PRINCIPLE.		
C/ 58 Koji, Shino	SC 58.14.2.3	<i>Р</i> 194 NTT	L 33	# 128	CI 58 Tom Murph	SC 58.2.1	P 179 Infineon	L 4	# 871
	2.3 is the same a	Comment Status D s 58.14.1.					Comment Status D evices use a pigtail constructio	n. Hence, a pat	ch cord is not needed
Suggested Delete	<i>Remedy</i> line 33 to 35				Suggested	IRemedy	nut and of a notable and ar sigt		
Proposed F PROP(Response OSED ACCEPT I	Response Status W IN PRINCIPLE.			Proposed	Response	put end of a patch cord or pigt Response Status W	an (172),	
This ch	ange is in keepir	ng with Clause 38 and other I	EFM clauses		_		IN PRINCIPLE.		

CI 58	SC 58.2.4	P 179	L 54	# 475	CI 58	SC 58.2.4	P184	L 7	# 99043
Swanson, St	steve	Corning Incorp	oorated		Dawe, Piers		Agilent		
Comment Ty	<i>уре</i> Е	Comment Status D			Comment Typ	e TR	Comment Status A		D1.0 #333 Refe
Text on	signal detect r	ot harmonized with other claus	ses.		Signal de	tect: it's univ	versal at present in continuous	-mode receivers	s (point to point) but the
SuggestedR	Remedv						ct approach in clause 38 won't		
00	-	ohs of 59.2.4 in clause 58.2.4					burst mode receiver. Further, ery pin and mW needs to be s		
Proposed R		Response Status W			especially	in the cont	inuous-mode CPE receiver. S	ee GR-253 for h	now PMD signal detect
•	•	IN PRINCIPLE.					ry. The standard does not hav ted in the PMD (although impl	•	5
							us be reported in duplicate, the	,	
		s comment can only be resolv	ed after SD dis	scussions have been	managen	ent interfac	e. Signal detect is not the prin	nary way of dete	ecting breaking links;
complet	ted.						/ noting a "run of zeroes" (codi useful in near-term mid-price e	•	· · ·
CI 58	SC 58.2.4	P 180	L3	# 619			en the head end and the split		
Onishi, Kazu	umi	Oki Electric Ind	dustry C		have ass	umed that 1	000BASE-PX will use Clause	45 MDIO.	
Comment Ty	ype T	Comment Status D					detect operates below sensitivity is compatible with PON operation		te cause SD chatter will
Regardi	ing 1000BASE	PX-OLT Type A and 1000BAS	SE-PX-OLT Ty	pe B, the received signal		p the PCS?			
condition	on is different fr	om the condition of the other o	ptical PMDs e.	g. 1000BASE-PX-ONU,	SuggestedRe	' medv			
		-			00	,	dified is compatible with the fol	llowing I think t	he state machine Figure
		BASE-PX-OLT should indicate					signal_detectCHANGE) will wo	•	5
		cannot be applied because 10	000BASE-PX-C	DLT does not know which	1,	D hard wire		tion If the burns	to source CD shotter will
	•		ation (59.2.4.1.1	I) and OLT Type Risignal			• •	ation. If the burst	as cause SD chatter, will
1000BA signals f single st ONU, bu ONU the	ASE-LX or 1000 from multi-poin tation. So 1000 ut this function e signal comes	BASE-SX, because 1000BAS t ONUs, whereas the other op BASE-PX-OLT should indicate cannot be applied because 10	E-PX-OLT rec tical PMDs rec e signal detect 000BASE-PX-C	eives time shared eive signals from a separately for each DLT does not know which	36-9 and cheap) S Check th	at 36 as mo 36.2.5.1.4 (D hard wired	d to OK. is compatible with PON opera	ork with (a conce	eptual, non-existe

For the above reason, OLT Type A signal detect function(58.2.4.1.1) and OLT Type B signal detect function(58.2.4.2.1) shouldn't be supported.

SuggestedRemedy

Delete "58.2.4.1.1 OLT Type A Signal Detect" and "58.2.4.2.1 OLT Type B Signal Detect".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

At the last meeting, the MPCP group were requested to submit requirements for a SD for burst mode, see comment 58 from New Orleans. We will review the MPCP group's findings at this meeting

0/36 30	J 00.2.4	F 104	L1	# 99043
Dawe, Piers		Agilent		
Comment Type	TR	Comment Status A		D1.0 #333 Refer

Suggested text for 59.2.4:

The signal detect function is traditionally implemented in the transceiver, although it may be implemented elsewhere, e.g. in association with the PMA, or not implemented. If implemented within the PMD, the PMD Signal Detect status shall be reported either or both of two ways. The PMD Signal Detect function may report to the PMD service interface, using the message PMD SIGNAL.indicate(SIGNAL DETECT) which is signaled continuously. PMD SIGNAL indicate is intended to be an indicator of optical signal presence. Or the status may be reported via the management interface. If the MDIO interface is implemented, the value of SIGNAL DETECT may contribute to the latching link status register bit 1.2 described in 22.2.4.2.13.

If implemented, the value of the SIGNAL DETECT parameter shall be generated according to the conditions defined in Table 60-1. If signal detect is not implemented, the value of the SIGNAL DETECT parameter conveyed to the upper layers and management functions shall be "OK". The PMD receiver is not required to verify whether a compliant signal is being received. This standard imposes no response time requirements on the generation of the SIGNAL DETECT parameter. It is preferable for the signal detect thresholds to be below the rated sensitivity of the receiver; they must be below the Receiver sensitivity (max) in this standard.

As an unavoidable consequence of the requirements for the setting of the SIGNAL_DETECT parameter, implementations must provide adequate margin between the input optical power level at which the SIGNAL_DETECT parameter is set to OK, and the inherent noise level of the PMD due to cross talk, power supply noise, etc.

C/ 58

C/ 58

Swanson, Steve

Comment Type

Incorrect entry.

SuggestedRemedv

Proposed Response

Swanson, Steve

Comment Type

SuggestedRemedy

PROPOSED ACCEPT.

Clarification needed.

SC 58.2.4.1.2

т

SC 58.2.4.1.2

Е

Various implementations of the Signal Detect function are permitted by this standard, including implementations that generate the SIGNAL_DETECT parameter values in response to the amplitude of the modulation of the optical signal and implementations that respond to the average optical power of the modulated optical signal. Full Ethernet implementations which do not use a PMD signal detect, or which do not use any signal detect, must avoid noise, chatter or crosstalk creating a bogus signal with the characteristics of a real signal, which is not otherwise identified as bogus.

Proposed Response Response Status W

ACCEPT IN PRINCIPLE.

PROPOSED ACCEPT.

Comment is referred to Ariel Maislos for consideration within P2MP. PMD group would like requirements (or lack of) for Signal Detect: For instance, speed (fast vs.slow), optional/mandatory etc.

C/ 58 SC 58.2.4.1.1 Tom Murphy	P 18 Infineo		# 873
Comment Type E The sign in the first line of	Comment Status of the table is incorre	-	ted in four tables
SuggestedRemedy Change >= to <=			
Proposed Response PROPOSED ACCEPT.	Response Status	w	
C/ 58 SC 58.2.4.1.1	P18	0 <i>L</i> 14	# 476
Swanson, Steve	Cornin	g Incorporated	
Comment Type T Incorrec table entry	Comment Status	D	
SuggestedRemedy "Input_optical_power >=	xx dBm" should read	"Input_optical_power	r <=30 dBm"
Proposed Response PROPOSED ACCEPT.	Response Status	w	
C/ 58 SC 58.2.4.1.1	P18	0 <i>L</i> 17	# 477
Swanson, Steve	Cornin	g Incorporated	
Comment Type E Clarification needed.	Comment Status	D	
SuggestedRemedy	nsitivity" the followir	ng text: "(max) in Tabl	e 58-9."

After "Receive sensitivity" add the following text: "(max) in Table 58-9" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment 477 C/ 58 SC 58.3 P181 L40 # 125 Koji, Shino NTT Comment Type E Comment Status D "1000BASE-PX" should be changed into "1000BASE-PX Type A" SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. C/ 58 SC 58.3 P181 L51 # 480 Swanson, Steve Corning Incorporated Comment Status D DUP 489 Comment Type Е Incorrect format. SuggestedRemedy

P180

Comment Status D

Response Status W

Comment Status D

"Input_optical_power >=-xx dBm" should read "Input_optical_power <=-30 dBm"

P180

Corning Incorporated

Corning Incorporated

L35

L38

478

479

DUP 477

"0.5m to 10 km" should read "0.5 to 10000" and relabel heading to read "Minimum range (m)

Proposed Response Response Status W

PROPOSED REJECT.

There was a comment at the last meeting proposing the use of km where appropriate, see comment $489\,$

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
 Page 1

 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 58

Page 102 of 190 C/ 58 SC 58.3

			P802.3ah D	Draft 1.0 Co	mments			
C/ 58 SC 58.3.1	P182	L17	# 884	C/ 58	SC 58.3.1	P 182	L 27	# 607
Tom Murphy	Infineon			Bemmel,	Vincent	Alloptic		
Comment Type T The wavelength range fo SuggestedRemedy	Comment Status D or the ONU (1270 to 1360) is	inconsistent wit	h Clause 59, 60 and 38.	<i>Comment</i> An ex Table	tinction ratio of 9	Comment Status D OdB is more realistic. Consiste	ent with 1000Bas	e-LX (8802-3-2000,
	nm, changes to four tables.	Also expand RM	IS tables * 2	Suggeste	-			
Proposed Response	Response Status W	·		Chan	ge Extinction rat	io values from 6dB to 9dB		
PROPOSED ACCEPT IN	'			•	<i>Response</i> POSED REJECT	Response Status W		
Change to 1260 to be co lower end range and inst	nsistant with other EFM clau alled cable plant.	uses. Have a dis) dB was changed to 6 dB at th Idvantages. (see comment 334		after much discussion.
C/ 58 SC 58.3.1	P182	L19	# 907	C/ 58	SC 58.3.1	P182	L31	# 909
Tom Murphy	Infineon			Tom Murp		Infineon		
Comment Type TR	Comment Status D			Comment	Tvpe TR	Comment Status D		
	T, the power range for Tx is , ageing and other factors.				51	ON timing values here and for	the OT receiver	
presentation prepared by		F		Suggeste		Ū		
SuggestedRemedy				00		ON timing values here and for	the OT receiver	
For Type A & B, increase max overload increase b	e Tx power range to 5 dB, O y 1 dB	LT Tx max incre	ased by 1 dB, ONU Rx	Proposed	Response	Response Status W		
Proposed Response	Response Status W			PROF	POSED ACCEPT	IN PRINCIPLE.		
PROPOSED ACCEPT IN	N PRINCIPLE.				to close on and att_general_1_1	discuss the action items regar 102.pdf	ding timing from	the last meeting. Refe
Make a decision based o	on the presentation			C/ 58	SC 58.3.1	P182	L32	# 609
C/ 58 SC 58.3.1	P182	L 25	# 874	Bemmel,	Vincent	Alloptic		
Tom Murphy	Infineon			Comment	Tvpe T	Comment Status D		
Comment Type E No value for OFF power	Comment Status D of OLT Tx			Based	21	nology, 100 ns (instead of 16r	ns) is a more rea	listic target value for
SuggestedRemedy				Suggeste	dRemedy			
Insert -30 dBm as OFF p	ower			Chan	ge target values	for T_on(max) and T_off(max)) to 100ns	
Proposed Response PROPOSED ACCEPT IN	Response Status W NPRINCIPLE.				Response	Response Status W		
Value is needed. Actual	number to be discussed at t	he meeting		There	e will be presenat	tation and discussions on this	topic at the Nove	ember meeting

C/ 58 SC 58.3.1 P182 L43 # 481	C/ 58 SC 58.3.1.1 P182 L25 # 590
Swanson, Steve Corning Incorporated Comment Type E Comment Status D Redundant text.	Dawe, Piers Agilent Comment Type T Comment Status D DUP & The spectral trade-off in the 1590 band seems too fussy.
SuggestedRemedy Delete entire subclause; RMS spectral width is already included in Table 58-7. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy Replace: 1480 0.96 0.66 1500 0.88 0.60 with:
C/ 58 SC 58.3.1, 58.5.1, P157, 163. L in tables. # 99044 Frank Effenberger Quantum Bridge Com 01.0 #56 CN/ID	1480 to 1500 0.88 0.60 Be consistent with clause 59, e.g. by removing the table from one or other clause and referring across.
Comment Type TR Comment Status A D1.0 #56 CNIR The downstream laser line widths of 1 nm RMS are too large. Also, the use of RMS specification for single longitudinal mode lasers is inappropriate. D1.0 #56 CNIR	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy The downstream laser line widths should be defined by their 20 dB width, and that width should be 1 nm. A footnote should be added to state: "The line width of the SLM laser is	A comment has been submitted (No 880) which suggests expanding this section of the tab to include the 1490 nm value. Perhaps this issue will be resolved by the inclusion of epsilo diagrams
expected to be less than 1 nm." The specific changes are: Page 157: Change 'RMS spectral width' to 'Spectral width at -20dB points'	CI 58 SC 58.3.1.1 P 182 L 46 # 875 Tom Murphy Infineon Comment Type E Comment Status D
Page 157: Add note to changed text "The line width of the SLM laser is expected to be less than 1 nm."	Comment Type E Comment Status D RMS table not in correct location
Page 163: Change 'RMS spectral width' to 'Spectral width at -20dB points' Page 163: Add note to changed text "The line width of the SLM laser is expected to be less	SuggestedRemedy Reunite Table 58-8 with the text of 58.3.1.1
than 1 nm." Proposed Response Response Status W	Proposed Response Response Status W PROPOSED REJECT. tables are intended to float
ACCEPT IN PRINCIPLE. It is accepted that the value for the laser linewidth needs investigation. The method of definition is consistent with existing standards	Cl 58 SC 58.3.1.1 P183 L 25 # 876 Tom Murphy Infineon
	Comment Type E Comment Status D It would be useful to know to RMS width for 1490 nm as this is the values most designers will initially consider
	SuggestedRemedy Insert further line into table with 1490 nm RMS values
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

P802.3ah Draft 1.0	Comments
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<i>Cl</i> 58 <i>SC</i> 58.3.1.1 Kakuno, Yutaka	P 183 Sumitomo Ele	L 29 ctric Indu	# 693	CI 58 SC Frank Effenberge		58.4.1, 58.5.2, 5	P158, 160, 16 Quantum Bridge		# 99046
Comment Type T	Comment Status D		DUP 173	Comment Type	TR	Comment S	Status R		D1.0 #57 CNIR
8(subclause:58.3.1.1,	for the side mode suppression for the side mode suppression and Table states and Table states and Table states and Table states and the states are states and the states are states and the states are			The burst me and the valu			eed practical. The	e editor's notes s	hould be removed,
line:35).				SuggestedReme	dy				
SuggestedRemedy				Remove the	editor's n	otes regarding t	he burst mode tim	ing values.	
Add footnotes to these The side mode suppre 30dB.	tables as follows: ssion ratio for SLM lasers is e	expected to be g	reater than or equal to		X-OLŤ-A	T_Optical_recov	very_time notes re		3)
Proposed Response	Response Status W			1000Base-P	X-ONU-A	I_On and I-Of	f notes removed(p	age 160)	
PROPOSED REJECT							very_time notes re f notes removed(p		1)
	ed at the July meeting. The re ionship between RMS and SL			Proposed Respo	nse	Response S	Status W		
See comment 173	•			REJECT. O	ptics STF	would like to se	e more information effort for the next	n on this topic be	efore making a
C/ 58 SC 58.3.2	P 183	L38	# 482					•	
Swanson, Steve	Corning Incor	porated				58.4.1, 58.5.2, 5	P158, 160, 16		# 99045
Comment Type T	Comment Status D			Frank Effenberge	er		Quantum Bridge	Com	
Incorrect wavelength r	ange.			Comment Type	TR	Comment S			D1.0 #54 CNIR
SuggestedRemedy	-	- ()					o heavy a burden Instruct type B OL		iver sensitivity. As
Change "1270-1360" t	o "1260-1360" consistent with	other clauses.		SuggestedReme	dy				
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.				•		increased by 1 dE	3 overall.	
	nding changes to RMS tables sons for 1270 nm as lower lin		examination of fibre	1000Base-P	X-ONT-A X-ONT-A	maximum recei receive sensitiv	ve power changed ity changed to -25 power (min) to -2	dBm (page 158)
Cl 58 SC 58.3.2 Bemmel, Vincent	P 183 Alloptic	L 51	# 611	1000Base-P	X-ONU-A	average launch	power (max) to +	3 dBm (page 16))
Comment Type T	Comment Status D						ve power changed ity changed to -28		
Based on current tech T_optical_rec_recover	nology, 1400 nsec (instead of y(max)	50) is a more re	ealistic target value for	1000Base-P	X-ONU-B	average launch	n power (min) to -2 n power (max) to +	dBm (page 166	
SuggestedRemedy				Proposed Respo	nse	Response S	Status W		
Change the target valu 50)	e of T_optical_rec_recovery(r	max) from 50 ns	to 1400 ns (instead of	the group an	d a more		budget could be a sal presentation or		to the consensus of aps as part of the
Proposed Response	Response Status W			PON ad-hoc	group				

58 SC 58.4	P184	L15	# 400	C/ 58 SC 58.4.1	P185	L 25	# 077
vanson, Steve	Corning Incor	-	# 483	Tom Murphy	Infineon	L 23	# 877
<i>mment Type</i> E Formatting.	Comment Status D		DUP 489	Comment Type E No value for OFF pow	Comment Status D er of OLT Tx		
ggestedRemedy "0.5 to 20 km" should i	read "0.5 to 20000" and the he	eading should rea	ad "Minimum range (m)"	SuggestedRemedy Insert -30 dBm as OFI	⁼ power		
oposed Response PROPOSED REJECT	Response Status W			Proposed Response PROPOSED ACCEP1	Response Status W		
There was a comment comment	at the last meeting proposing	the use of km w	here appropriate, see	Value needed. Actual	number to be debated at the r	meeting	
58 SC 58.4	<i>P</i> 184 NTT	L 4	# 126	Cl 58 SC 58.4.1 Bemmel, Vincent	P 185 Alloptic	L 27	# 608
ji, Shino omment Type E "1000BASE-PX" shoul	Comment Status D d be changed into "1000BASI	E-PX Type B"		Comment Type T An extinction ratio of 9 Table 38-7)	Comment Status D dB is more realistic. Consiste	ent with 1000Base	e-LX (8802-3-2000,
ggestedRemedy				SuggestedRemedy Change Extinction rati	o values from 6dB to 9dB		
oposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED REJECT	Response Status W		
58 SC 58.4.1 m Murphy	P185 Infineon	L19	# 908	The original value of 9 advantages. (see com	dB was changed to 6 dB at th ment 334 from July)	he July meeting. I	Lower ER has many
achieve, even with AP Effenberger <i>iggestedRemedy</i>	Response Status W	presentation pre	pared by Frank	T_on(max) and T_off(SuggestedRemedy	P185 Alloptic Comment Status D nology, 100 ns (instead of 16i max) for T_on(max) and T_off(max Response Status W	,	# 610
Decision to be made a	-			PROPOSED ACCEPT There will be presenat	IN PRINCIPLE.	topic at the Nove	mber meeting

C/ 58 SC 58	3.4.1 P18		# 878	CI 58 Swanson,	SC 58.5	P186 Corning Inco	L 37	# 484
						Ũ	iporateu	
51	E Comment Status			Comment Consis	<i>Type</i> E stent terminology.	Comment Status D		
SuggestedRemedy				Suggested				
,	2 dB, both entries			00		o "Illustrative" consistent wit	h Clause 60.	
Proposed Response PROPOSED A	•	W		Proposed PROP	Response OSED ACCEPT	Response Status W		
C/ 58 SC 58		5 L 45	# 127	Will ch	ange as appropri	ate		
Koji, Shino	NTT	_		C/ 58	SC 58.6	P 187	L 20	# 612
Comment Type The type is wro	E Comment Status	D		Bemmel, \		Alloptic		
	-			Comment	51	Comment Status D	(= a) (
SuggestedRemedy Change to Type					on current techn cal_rec_recovery	ology, 1400 nsec (instead o (max)	if 50) is a more i	ealistic target value fo
Proposed Response	e Response Status	w		Suggested	lRemedy			
PROPOSED A	CCEPT.			Chang 50)	e the target value	e of T_optical_rec_recovery	(max) from 50 n	s to 1400 ns (instead
C/ 58 SC 58 Fom Murphy	3.4.1.1 P189 Infineor		# 879	Proposed PROP	Response OSED ACCEPT	Response Status W		
	E Comment Status	D		There	will be presenata	tion and discussions on this	topic at the No	vember meeting
SuggestedRemedy	58-12 with the text of 58.4.1.1			CI 58 Tom Murp	SC 58.7 hy	P 187 Infineon	L 48	# 881
				Comment	Туре Е	Comment Status D		
Proposed Response PROPOSED RI		vv		There	is no high lighted	text in table 58-16, or table	58-17	
	bles at this point			Suggested Remo	<i>Remedy</i> ve this sentence			
C/ 58 SC 58	3.4.1.1 P180 Infineor		# 880	Proposed PROP	Response OSED ACCEPT.	Response Status W		
Comment Type	E Comment Status	D	DUP 876					
	ful to know to RMS width for 1		values most designers					
SuggestedRemedy								
,	e into table with 1490 nm RM	S values						
Proposed Response PROPOSED A	e Response Status	w						
See response to	o 876							
·					0007 00055		. –	407 (400
	required T/technical E/editor			ea R/rejected	SORTORDER	: Clause, Page, Line, Subc	iause P	age 107 of 190

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Cl 58 SC 58.7

<i>CI</i> 58 Tom Murp		58.8	P 188 Infineon	L 49	# 882	C/ 58 Swanson, Ste
	najority	T of BiDi de ^r urement	Comment Status D	ction. Hence, a patc	DUP 871 h cord is not needed	Comment Ty Incomple
Suggeste	dRemed	ły	ts shall be made through	a short patch cable	or nigtail between 0.5	SuggestedRe Repeat te
	m in lei	ngth	Response Status W			Proposed Re PROPOS
			IN PRINCIPLE.			The bulk consistar
<i>Cl</i> 58	SC	58.9.1	P189	L35	# 883	<i>Cl</i> 58 Diab, Wael W
Comment The la	t <i>Type</i> anguage	T here is s e case in r	Comment Status D uch that one has the opini	on that column 2 is	the only viable option.	Comment Ty TDP is th PMDs ar proposal
limits	ove the solur	sentence ' nn 3. epsi	However, partition noi on will not exceed 0.115 a dB when all link paramete	and the chromatic di	spersion penalty is	TDP may SuggestedRe Specify a and/or th
Proposed PROF	'		Response Status WIIN PRINCIPLE.			Proposed Re PROPOS
Need	more s	pecific wo	ding			Need mo
<i>CI 58</i> Radcliffe,		58.9.11	P 190 Hatteras N	L 36 etworks	# 292	CI 58 Swanson, Ste
			Comment Status D the stressed receiver ser	nsitivity test then this	DUP 293 s test section is no	Comment Ty Missing t
Suggeste	dRemed		1			SuggestedRe Add the t
Proposed PROF			Response Status W			"This sta SIGNAL ₋
Chan	ges will	be made	pased on the decision read	ched in Clause 59. S	See 293	Proposed Re PROPOS
						At the las

CI 58	SC 58.9.4	P 189	L 54	# 485
Swanson, Ste	eve	Corning Incorp	orated	
Comment Typ Incomple	be E te reference.	Comment Status D		
SuggestedRe Repeat te	-	5 since many clause clause ha	ave identical text	i.
Proposed Res PROPOS	sponse ED REJECT.	Response Status W		
	of the test pro cy within the	ocedure will be retained in C60 EFM clauses	to allow for eas	ier maintenance and
C/ 58	SC 58.9.9	P190	L	# 695
Diab, Wael W	'illiam	Cisco Systems	3	
		method for evaluating PMDs.		
proposal		rm desire to implement solution), an informative that relates the gap.		
proposal TDP may SuggestedRe Specify a	presentations help bridge to medy n informative	 an informative that relates the gap. correlation between the TDP r 	aditional measu	rement techniques to
proposal TDP may SuggestedRe Specify a and/or the	presentations help bridge t medy n informative e jitter numbe	 an informative that relates to the gap. correlation between the TDP response 	aditional measu	rement techniques to
proposal TDP may SuggestedRe Specify a and/or the Proposed Re	presentations help bridge ti medy n informative e jitter numbe sponse	 an informative that relates the gap. correlation between the TDP r 	aditional measu	rement techniques to
proposal TDP may SuggestedRe Specify a and/or the Proposed Re	presentations help bridge to medy n informative e jitter numbe sponse ED ACCEPT), an informative that relates the gap. correlation between the TDP r rs <i>Response Status</i> W	aditional measu	rement techniques to
proposal TDP may SuggestedRe Specify a and/or the Proposed Re PROPOS Need mo	presentations help bridge to medy n informative e jitter numbe sponse ED ACCEPT), an informative that relates the gap. correlation between the TDP r rs <i>Response Status</i> W	aditional measu	and the eye mask
proposal TDP may SuggestedRe Specify a and/or the Proposed Re PROPOS Need mo Cl 58	presentations help bridge the medy n informative e jitter numbe sponse ED ACCEPT re work SC 59.2.4	 an informative that relates the gap. correlation between the TDP restricted to the status was status w 	raditional measu measurements a	rement techniques to
proposal TDP may SuggestedRe Specify a and/or the Proposed Re PROPOS Need mo	presentations help bridge the medy n informative e jitter numbe sponse ED ACCEPT re work SC 59.2.4 eve De T	a), an informative that relates the gap. correlation between the TDP r rs <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 179	raditional measu measurements a	and the eye mask
proposal TDP may SuggestedRe Specify a and/or the Proposed Re PROPOS Need mo Cl 58 Swanson, Ste Comment Typ Missing to SuggestedRe	presentations help bridge the medy n informative e jitter numbe sponse ED ACCEPT re work SC 59.2.4 eve De T ext.	an informative that relates to the gap. correlation between the TDP r rs <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 179 Corning Incorp <i>Comment Status</i> D	raditional measu measurements a	and the eye mask
proposal TDP may SuggestedRe Specify a and/or the Proposed Re PROPOS Need mo Cl 58 Swanson, Ste Comment Typ Missing to SuggestedRe Add the fo	presentations help bridge the medy n informative e jitter numbe sponse ED ACCEPT re work SC 59.2.4 eve De T ext. medy pollowing sente	 an informative that relates to the gap. correlation between the TDP is Response Status W IN PRINCIPLE. P179 <pre>Corning Incorp.</pre> Comment Status D 	raditional measu measurements a	and the eye mask

At the last meeting, the MPCP group were requested to submit requirements for a SD for burst mode, see comment 58 from New Orleans. When the later has been addressed, your comment may be implemented

				P802.3al	n Draft 1.0 Comments
Cl 58 SC Table Radcliffe, Jerry	58-13	P187 Hatteras Netw	L 15 orks	# <u>291</u>	C/ 58 SC Tat Nojima, Kazuhiro
Comment Type T Stressed Receiver S SuggestedRemedy Remove the received	ensitivity is no			DUP 293 node system.	Comment Type T There are two sp It is not clear whi Only one specific
Proposed Response PROPOSED ACCEF Changes will be made	Respons PT IN PRINCIF	e Status W PLE.		See 293	SuggestedRemedy Proposed Response PROPOSED AC
Cl 58 SC Table S Tomoaki, Masuta	58-3,58-5	P NEC Corporat	<i>L</i> ion	# 867	The two epsilon suffice to clarify?
Comment Type E Need a value for xx of		<i>nt Status</i> D node.			C/ 58 SC Tat Radcliffe, Jerry
SuggestedRemedy We propose -35dBm		e-A and B, which i	s 10dB down fro	om the receive	Comment Type T Stressed Receive
sensitivity (-25dBm). Proposed Response	Respons	e Status W			SuggestedRemedy Remove the rece
PROPOSED ACCEF The comment seems discussion. A possit	s technical in r	nature as the value			Proposed Response PROPOSED AC
C/ 58 SC Table	0.	P182	L	# 868	Changes will be
Tomoaki, Masuta		NEC Corporat	_	<i>"</i>	C/ 58 SC Tat Onishi, Kazumi
Comment Type T Why is the Optical re SuggestedRemedy	eturn loss toler				Comment Type T The definitions fo footnotes under t
The Optical return lo same vaule as Type Proposed Response	В.	max) for Type-A sl e Status W	nould be 15dB f	or OLT and ONU as the	SuggestedRemedy Add the following
PROPOSED ACCEP			e for both PMDs	to 12 dB.	where "T_dyn_re prepare for the n recovery time" th
					Proposed Response PROPOSED RE

C Table 58-8,58-12 P183 L1 # 621 Matsushita Communic O DUP 883 т Comment Status D vo specifications(@epsilon=0.168 and 0.115) in table 58-8,58-12(page 186). ar which should be chosen. ecification should be defined in table 58-8.58-12. edy Response Status W onse D ACCEPT IN PRINCIPLE. silon values are explained in 58.9.1. Would a reference to this in the text here arify? Another comment (883) will also address the text associated with this table. C Table 58-9 P183 L46 # 290 Hatteras Networks т Comment Status D DUP 293 eceiver Sensitivity is not an appropriate test for a single mode system. edy receiver stressed sensitivity requirement onse Response Status W D ACCEPT IN PRINCIPLE. Il be made based on the decision reached in Clause 59. See 293 C Table 58-9 P183 L52 # 620 Oki Electric Industry C т Comment Status D ons for the variables, T dyn recovery and T IvI recovery are not shown in the nder the Table58-9(pp.183) and Table58-13(pp.187). edy owing sentence to the footnotes under the Table58-9 and Table58-13. vn recoverv" denotes "dynamic sensitivity recovery time" that is necessary to the next burst arrival after a precedent burst, and "T_lvl_recovery" denotes "level ne" that is for restoring correct logic levels. Response Status W onse D REJECT.

The text below the table is intended only for clarification while burst-mode discussions continue. Eventually a single value for receiver recovery will be specified, how this is split between the two effects will not be specified.

C/ 58 SC Table 58-9,13 P L # 869 Tomoaki, Masuta NEC Corporation H 1000000000000000000000000000000000000	CI 58 SC Table58-2 P180 L13 # 121 Koji, Shino NTT
Comment Type T Comment Status D We should consider that "multiple reflection" may occur between an ONU and OLT. In this	Comment Type E Comment Status D "Input_optical_power >= XXdBm" should be changed into "Input_optical_power <= XXdBm
case this "multiple reflection" may be regarded as a noise to the received signal and cause the penalty for optical receiving sensitivity.	SuggestedRemedy
SuggestedRemedy We propose to add a specification for "tolerance to the reflected optical power" to OLT and ONU receive characteristic.	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED REJECT.	C/ 58 SC Table58-3 P180 L34 # 122 Koji, Shino NTT
Loss of receiver sensitivity due to this type of reflection is covered in the link model by Interferometric Noise Penalty. This and connector and PMD return specifications eliminate the need for a tolerance to the reflected optical power specification	Comment Type E Comment Status D "Input_optical_power >= XXdBm" should be changed into "Input_optical_power <= XXdBm
C/ 58 SC Table 58-9,58-13 P183 L # 870	SuggestedRemedy
Tomoaki, Masuta NEC Corporation	Proposed Response Response Status W
Comment Type T Comment Status D The current receive sensitivity for OLT is very hard. Considering a power penalty of burst-	PROPOSED ACCEPT.
mode operation, the sensitivity of OLT should be relaxed. So the output power of ONU should be increased by 1dB and the receive sensitivity of OLT should be increased by 1dB.	C/ 58 SC Table58-4 P 181 L 6 # 123 Koji, Shino NTT
SuggestedRemedy	Comment Type E Comment Status D
As a result 1000Base-PX-ONU-Type-A average launched power (MAX) changed to +3dBm 1000Base-PX-ONU-Type-A average launched power (min) changed to -2dBm 1000Base DX OLT Time A receive considuate abaged to -2dBm	"Input_optical_power >= XXdBm" should be changed into "Input_optical_power <= XXdBr SuggestedRemedy
1000Base-PX-OLT-Type-A receive sensitivity changed to -25dBm 1000Base-PX-OLT-Type-A receive overload changed to -2dBm 1000Base-PX-ONU-Type-B average launched power (MAX) changed to +3dBm	Proposed Response Response Status W PROPOSED ACCEPT.
1000Base-PX-ONU-Type-B average launched power (min) changed to -2dBm 1000Base-PX-OLT-Type-B receive sensitivity changed to -28dBm	C/ 58 SC Table58-5 P181 L21 # 124
1000Base-PX-OLT-Type-B receive overload changed to -7dBm Proposed Response Response Status W	Koji, Shino NTT
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type E Comment Status D "Input_optical_power >= XXdBm" should be changed into "Input_optical_power <= XXdBm"
There will be a technical presentation at the November meeting dealing with this comment. However, the presentation addresses only Type B links. In conclusion to the presentation,	SuggestedRemedy
your changes may be discussed	Proposed Response Response Status W PROPOSED ACCEPT.

P802.3ah Draft 1.0 Comment	s
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Cl 59 SC 1 P L7 # 36 Tatum, Jim Honeywell Cl 59 SC 1.4 P L54 Tatum, Jim Honeywell Cl 59 SC 1.4 P L54 Cl souse syn to valid SuggestedRemedy E Comment Type E Comment Status D Is clause 36 the correct reference? Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. It is believed that Clause 36 is the correct reference Cl 59 SC 1.2 P L Tatum, Jim Honeywell Tatum, Jim Honeywell Comment Status D Tatum, Jim Honeywell Comment Type E Comment Status D Tatus D	# 39
Clause yp not valid Is clause 36 the correct reference? SuggestedRemedy Replace with appropriate clause number Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. Agreed; what is the proper reference? It is believed that Clause 36 is the correct reference Cl 59 SC 1.2 P L 30 # 37 Tatum, Jim Honeywell Comment Type E Comment Status D Text is needed for sections 59.1.1 and 59.1.3 SuggestedRemedy Name Name Are these sections really needed? Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. text is needed for 59.1.2 and 59.1.3 but what is the proposed text? P L 39 # 38 Cl 59 SC 1.4 P L 39 # 38 Tatum, Jim Honeywell Suggested Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. P L 39 # 38 Tatum, Jim Honeywell Comment Status D P L 39 Tatum, Jim Honeywell Comment Status D P L PMD should be plural P L 39 <	
Replace with appropriate clause number Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Agreed; what is the proper reference? It is believed that Clause 36 is the correct reference Cl 59 SC 1.2 P L 30 # 37 Tatum, Jim Honeywell Honeywell Comment Type E Comment Status D Text is needed for sections 59.1.1 and 59.1.3 SuggestedRemedy Are these sections really needed? Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Exet is needed for 59.1.2 and 59.1.3 but what is the proposed text? Cl 59 SC 1.4 P L 39 # 38 Tatum, Jim Honeywell Honeywell Comment Type E Comment Status W Cl 59 SC 1.4 P L 39 # 38 Tatum, Jim Honeywell Comment Type E Comment Status D Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. propose 6.2 dB for both upstream and downstream channels Cl 59 SC 1.2 P L Tatum, Jim Honeywell	
PROPOSED ACCEPT IN PRINCIPLE. Agreed; what is the proper reference? Cl 59 SC 1.2 P L 30 # 37 Tatum, Jim Honeywell C For Sc 1.2 P L Comment Type E Comment Status D Tatum, Jim Honeywell Comment Type E Comment Status D Table 59-15 missing values SuggestedRemedy Are these sections really needed? Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Ext is needed for 59.1.2 and 59.1.3 but what is the proposed text? Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. P L 39 # 38 S Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. P L 39 # 38 S C 59 SC 1.4 P L 39 # 38 C 159 SC 12.2 P L Tatum, Jim Honeywell Comment Type E Comment Status D S C 159 SC 12.2 P L Tatum, Jim Honeywell Comment Type T Comm	
CJ 59 SC 1.2 P L 30 # 37 Fatum, Jim Honeywell Honeywell Honeywell Comment Type E Comment Status D Text is needed for sections 59.1.1 and 59.1.3 SuggestedRemedy Tatum, Jim Honeywell SuggestedRemedy Are these sections really needed? SuggestedRemedy SuggestedRemedy Proposed Response Response Status W SuggestedRemedy Values should be consistent with table 59-11. Table 59-11 needs to sperate OLT and ONU cases. Proposed Response PROPOSED ACCEPT IN PRINCIPLE. P L 39 # 38 Fatum, Jim Honeywell Honeywell Comment Type E Comment Status D PMD should be plural Moneywell Ci 59 SC 12.2 P L Tatum, Jim Honeywell Honeywell Ci 59 SC 12.2 P L Tatum, Jim Honeywell Honeywell Comment Type T Comment Status D Figure 59-7 does not show cable connections for BX and SME EX Exercise to thow cable connections for BX and SME EX Exercontech show cable connections for BX and SME EX	
Tatum, Jim Honeywell Comment Type E Comment Status D Text is needed for sections 59.1.1 and 59.1.3 SuggestedRemedy Table 59-15 missing values SuggestedRemedy Are these sections really needed? SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Values should be consistent with table 59-11. Table 59-11 needs to sperate OLT and ONU cases. text is needed for 59.1.2 and 59.1.3 but what is the proposed text? P L 39 # 38 C/ 59 SC 1.4 P L 39 # 38 Tatum, Jim Honeywell Comment Type E Comment Status D PMD should be plural Comment Status D L P L 39 # 38	
Text is needed for sections 59.1.1 and 59.1.3 SuggestedRemedy Are these sections really needed? Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. text is needed for 59.1.2 and 59.1.3 but what is the proposed text? C/ 59 SC 1.4 P L39 Faturn, Jim Honeywell Comment Type E Comment Type T	# 57
Are these sections really needed? Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. text is needed for 59.1.2 and 59.1.3 but what is the proposed text? C/ 59 SC 1.4 P L 39 Fatum, Jim Honeywell Comment Type E Comment Type E Comment Type E Comment Type E Comment Type Tatum, Jim Honeywell Honeywell Comment Type E Comment Type E Comment Type Tatum, Jim Honeywell Honeywell Comment Type Tatum, Jim Honeywell Honeywell Comment Type T	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. text is needed for 59.1.2 and 59.1.3 but what is the proposed text? C/ 59 SC 1.4 P L 39 # 38 C/ 59 SC 1.4 P L 39 # 38 Comment Type E Comment Status D PMD should be plural For point Status D Figure 59-7 does not show cable connections for BX and SME EX Figure 59-7 does not show cable connections for BX and SME EX	to add a column for the
text is needed for 59.1.2 and 59.1.3 but what is the proposed text? C/ 59 SC 1.4 P L 39 # 38 Fatum, Jim Honeywell Honeywell C/ 59 SC 12.2 P L Comment Type E Comment Status D Honeywell Honeywell Comment Type Tatum, Jim Honeywell PMD should be plural F Comment Type F Comment Status D	
Cl 59 SC 1.4 P L 39 # 38 Fatum, Jim Honeywell Cl 59 SC 12.2 P L Comment Type E Comment Status D Tatum, Jim Honeywell PMD should be plural Comment Status D Figure 59-7 does not show cable connections for BX and SME EX	
Comment Type E Comment Status D PMD should be plural Figure 59-7 does not show cable connections for BX and SME EX	# 56
Figure 59-7 goes not snow cable connections for BX and SMF EX	(
Juggested Remedy	. case
replace with PMDs For EX MMF case, it calls out SMF in figure 59-7 Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Add connections to the BX and SMF EX case.	
Change SMF to MMF is 59-7, replace "Jujmper Cable" with "ofset I	launch patch cord"
Proposed Response Response Status W PROPOSED ACCEPT.	

C/ 59 SC 13.1 Tatum, Jim	<i>P</i> Honeywell	L	# 58	CI 59 S Tatum, Jim	C 14.1	<i>P</i> Honeywell	L12	# 59
Comment Type TR Taqble 59-16 missing	Comment Status D value for max attenuation at 1	550nm. Should	d be specified at 1490nm.	Comment Type Is clause 2	e E 1 a valid ref	Comment Status D erence?		
SuggestedRemedy Add values per fiber m	nanufacturers recommendatior	ı		SuggestedRem Replacw as	2			
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Resp PROPOSE	oonse D REJECT	Response Status W		
propose 0.4b or 0.5c c	IB/km (same as 1310nm value	es)		it is believe	ed that Claus	se 21 is the correct reference		
C/ 59 SC 13.1 John George	<i>P</i> 215 OFS	L11	# 892	CI 59 S Tatum, Jim	C 2.1	<i>P</i> Honeywell	L19	# 40
Comment Type E Additional clarification	Comment Status D of fiber types needed to assist	t user		Comment Type line starting		Comment Status D	t paragraph	
	es 58 and 60 by inserting "(disp • peak single mode)" after "B1.		ited single mode)" after		starting with			
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Resp PROPOSE	D ACCEPT	Response Status W		
C/ 59 SC 14 Tatum, Jim	P Honeywell	L	# 60	Tatum, Jim	C 2.4	P Honeywell	L 15	# 41
Comment Type E	Comment Status D			Comment Type		Comment Status D e 59-2 as well as 59-1		
Pics are riddled with re 1000BASE-LX and 10	efernces to clause 38, and its a 00BASE-SX.	associated sev	vctions. Also refernces to	SuggestedRem	nedy	This may be irrelevant based of	on resolution to	next comment.
Jitter specs are no long	ger normative			Proposed Resp		Response Status W		
SuggestedRemedy Replace and edit as a	opropriate			PROPOSE	D ACCEPT	IN PRINCIPLE.		
Remove jitter referenc Proposed Response PROPOSED ACCEPT	e from PICS Response Status W					o the end of the first sentence: Table 59-2 for 1000BASE-BX.		
	ew by optics team. 59.14.4.5,	Jitter specificat	tions to be removed.					

SC 2.4

C/ 59 SC 2.4.1 Tatum, Jim	<i>P</i> Honeywell	L 40	# 42	<i>CI</i> 59 Tatum, Jim	SC 3.1.1	<i>P</i> Honeywell	L 35	# 45
Comment Type T Can 59.2.4.1 and 59.4. 59-2 into a single table	Comment Status D .2.2 be combined into a single	section, and co	mbine tables 59-1 and		ice to 59-4 wrong	Comment Status D		DUP 445
single table. Fisrst colu	2.4.1&2 into a single section, a ime is signal detect value, the vs which define values for SD	n a colum for ea	ich EX, and BX-ONU	Proposed I	e with 59-5	Response Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			See 44	-			
C/ 59 SC 3.1 Tatum, Jim	<i>P</i> Honeywell	L12	# 44	<i>CI</i> 59 Tatum, Jim	SC 4.1	<i>P</i> Honeywell	L	# 47
Comment Type T value in table is "see"	Comment Status D				59-8, values for R	Comment Status D MS spectral width for OLT a th and center wavelength.	nd ONU should	be replaced with notes
SuggestedRemedy note should be added r wavelength.	reagarding the trade off betwe	en the spectral	width and center		lues in Table 59-	5 for ONU side, and leave O ure link robustness.	LT side as fixed	d, but value needs to be
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed F PROP	Response OSED ACCEPT II	Response Status W N PRINCIPLE.		
entry should read See Table 59-5. Since wavelength, no note is	this Table shows the trade off needed.	between spect	al width and center	Defer t <i>Cl</i> 59	o optics team for SC 4.1	discussion in Kauai P	L	# 46
C/ 59 SC 3.1 Tatum, Jim	<i>P</i> Honeywell	L 41	# 43	Tatum, Jim <i>Comment</i> 7 Table 5	Type TR	Honeywell Comment Status D es for stress receive sensitiv	ity and vertical	eye closure limit
Comment Type E Note A should be anch SuggestedRemedy	Comment Status D nored with table 59-4.			Suggested vlues n		d by spreadsheet analysis		
Move text. Proposed Response	Response Status W			Proposed F PROP	Response OSED ACCEPT II	Response Status W N PRINCIPLE.		
PROPOSED REJECT.				need p	roposed value			
since the last sentence delete note a in Table \$	e of paragraph 1 states essent 59-4	ally the same the	ning, it is proposed to					

Р C/ 59 SC 5 1 # 48 C/ 59 SC 59.1 P198 L7 # 578 Tatum, Jim Honeywell Dawe. Piers Agilent Comment Type TR Comment Status D Comment Type Comment Status D Т MDIO Clause yy: if we go with the "45 registers through 22 interface" proposal, presumably Table 59-10 is missing values for several values. a pure clause 45 implementation would be OK too. SuggestedRemedy SuggestedRemedv Power budgetr is 9dB Change yy to "22 or 45". other values to be determeined by spreadsheet analysis Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. To be discussed further. let's pick a reference. See 36 C/ 59 One proposal is an 8 dB power budget (based on changing the receiver sensitivity to -19), SC 59.1 P198 L9 # 579 channel insertion loss of 4.57 dB, changing "link power penalties" to "allocation for Dawe, Piers Agilent penalties" and specifying 3.27 dB, and changing "unallocated margin in link budget" to Comment Type E Comment Status D "additional insertion loss" allowed at 0.16 dB. To help the reader (and ourselves, later), add a new Table 1 following clause 60. We can C/ 59 SC 59 P197 L1 # 573 make it even more useful by adding a further column. Dawe. Piers Aailent SuggestedRemedy Comment Type E Comment Status D Add a new Table 1 following clause 60 (but use range, 10km not range (meters) 10000). Add another column "Maximum total channel loss". To avoid too much detail so early, just Not baseband, it's intensity modulated. have one "MMF" entry with ranges or "up to ..." values. Add footnote "At the nominal SugaestedRemedv wavelength". Delete "baseband". Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Clause 59-3 contains Table 59-3 but Clause 60 has moved that up front with some additional information. Propose modifying Table 59-3 and moving it to the end of 59.1. C/ 59 SC 59 P197 L1 # 570 Dawe, Piers Agilent C/ 59 SC 59.1.4 P198 L39 # 865 Thatcher, Jonathan World Wide Packets Comment Type E Comment Status D Simplify the title following clause 60. Comment Type Е Comment Status D See rememdy SuggestedRemedy Physical Medium Dependent (PMD) sublayer and baseband medium, type 1000BASE-EX SuggestedRemedy (Long Wavelength) and 1000BASE-BX (BiDirectional Long Wavelength) Change to "1000BASE-EX" Optionally add "10 km" somewhere in the title to distinguish it from 1000BASE-LX. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W

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PROPOSED ACCEPT.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 59

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C/ 59 SC 59.1.4	P 198	L 41	# 864	C/ 59 SC 59.12	P 213	L 32	# 464
Thatcher, Jonathan	World Wide Pa	ickets		Swanson, Steve	Corning Incorp	orated	
Comment Type T See remedy	Comment Status D			Comment Type E Clarification needed.	Comment Status D		
SuggestedRemedy Change "PMA entities."	to "with the PMA."			SuggestedRemedy Add the following text to	the second sentence:		
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE. clarification ne	eeded on the pr	oposed remedy	"for multimode cabling "for single-mode cabl			
Cl 59 SC 59.10 Tatum, Jim	P 199 Honeywell	L	# 99047	Proposed Response PROPOSED ACCEPT.	Response Status W		
Comment Type E Add "transmitter" after "c	Comment Status D optical on line 3		D1.0 #625	C/ 59 SC 59.12.1 Swanson, Steve	P 213 Corning Incorp	L 43 orated	# 467
SuggestedRemedy Add "transmitter" after "c	optical on line 3			Comment Type E SMF incorrectly labelled	Comment Status D		
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			SuggestedRemedy "SMF" should read B.1.	1, B.1.3 SMF		
Defer to optics team for	discussion in Kauai; propose	d resolution und	clear.	Proposed Response PROPOSED ACCEPT.	Response Status W		
Cl 59 SC 59.10.3 Thatcher, Jonathan	P 213 World Wide Pa	L12 ackets	# 849	C/ 59 SC 59.12.1 Swanson, Steve	P213 Corning Incorp	L 44	# 465
Comment Type E Word "environment" han	Comment Status D nging.			Comment Type T	Comment Status D	oraleu	
SuggestedRemedy Remove?				SuggestedRemedy	incorrect for multimode fiber.		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response	00" for both multimode entries Response Status W		
Delete environment from	n line 13			PROPOSED ACCEPT.			

C/ 59 SC 59.12.1 P 213 L 45 # 848 Thatcher, Jonathan World Wide Packets World Wide Packets # 848	C/ 59 SC 59.13.1 P 215 L 12 # 847 Thatcher, Jonathan World Wide Packets World Wide Packets # 100
Comment Type T Comment Status D Where is the "Channel Insertion Loss" in Table 59-14 (other than the title)?	Comment Type T Comment Status D DUP 846 Is this subclause really needed? Can't we reference an existing subclause? D D D
SuggestedRemedy Add C.I.L and the specifications	SuggestedRemedy Simplify, redundancy bad. Remember that this is one standard.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
reformat Table 59-14 consistent with Table 59-10	For now EFM clauses should be self contained. Can add note and decide on deleting near publication
C/ 59 SC 59.12.1 P 213 L 49 # 466 Swanson, Steve Corning Incorporated	Cl 59 SC 59.13.1 P 215 L 21 # 469 Swanson, Steve Corning Incorporated
Comment Type T Comment Status D Inconsistent format for operating distance.	Comment Type T Comment Status D Missing Table entry.
SuggestedRemedy Operating distance should read:	SuggestedRemedy Include fiber cable attenuation at 1550 nm:
0.5-10000 for SMF 0.5-500 for 62.5 and 50um	0.4b or 0.5c
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Alternately we could spec max operating distance in the table C/ 59 SC 59.12.2 P214 L1 # 468	C/ 59 SC 59.13.4 P 216 L 29 # 850 Thatcher, Jonathan World Wide Packets World Wide Packets P 216 D 200 D 200
Swanson, Steve Corning Incorporated	Comment Type T Comment Status D
Comment Type E Comment Status D DUP 56	More @#\$(redundancy. There is no reason to have people read this word by word to see if they can find a difference with the patch cord in CI 38 when there is no difference.
Figure 59-7 incorrectly labelled SuggestedRemedy Figure 20-14-14 Control of the second	SuggestedRemedy Just reference CL 38.
First instance of "SMF Cable" Beanance Status	Proposed Response Response Status W
Proposed Response Response Status W PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE.
See comment 56	For now EFM clauses should be self contained. Can add note and decide on deleting near publication

SC 59.13.4

			P802.3ah D	Praft 1.0 Cor	nments			
Cl 59 SC 59.13.4 Dawe, Piers	P 217 Agilent	L 12	# 569	C/ 59 Tom Mathe	SC 59.2.4	P 200 Independent	L16	# 925
SuggestedRemedy	Comment Status D an example; no connector war			require	PMD is to be us	Comment Status D ed by EPON (OLT, ONU), ther eneration of the SIGNAL_DETE		
this duplex".	s" (4 times). Change "The key iated with these "shall"s.	/ing of the SC dı	uplex" to "The keying of	Suggested Add re	<i>Remedy</i> sponse time pa	rameter.		
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed PROP	Response OSED REJECT	Response Status W		
Cl 59 SC 59.2.1 Tom Murphy Comment Type T The majority of BiDi de for this measurement.	P 199 Infineon <i>Comment Status</i> D vices use a pigtail constructio	L 10 n. Hence, a pato	# 885 DUP 871 sh cord is not needed	Perha SIGN/ has se	os this applies t	ent for BX to interoperate with F o clause 58. Discussions regar Clause 58 for OLT-end receive regarding PON timing paramet 2.pdf.	rding the require er cannot take pl	ace until the task force
SuggestedRemedy is defined as the outp	out end of a patch cord or pigt	ail (TP2),		C/ 59 Thatcher, .	SC 59.2.4.1 Jonathan	P 200 World Wide Pa	L 30 ackets	# 866
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			<i>Comment</i> Don't r	51	Comment Status D 4.1 and 59.2.4.2		DUP 42
See 871					se into one sub	section; collapse T59-1 and T5		
Cl 59 SC 59.2.4 Swanson, Steve Comment Type E Reference for signal de	P 200 Corning Incorp <i>Comment Status</i> D etect is incomplete.	L15 porated	# <u>440</u>	Proposed	Response OSED ACCEP ⁻	nd the 30 stay together (both T <i>Response Status</i> W T.	59-1 and T59-2.	
SuggestedRemedy At the end of the first so 1000BASE-BX."	entence in paragragh 2, add:	"for 1000BASE	E-EX and Table 59-2 for	<i>CI</i> 59 Dawe, Pier	SC 59.2.4.1	P 200 Agilent	L 37	# 576
Proposed Response PROPOSED ACCEPT	Response Status W			<i>Comment</i> Cramp	<i>Type</i> E bed table.	Comment Status D		DUP 42
				others Proposed	out the unneces especially 59-2 Response OSED ACCEP	Response Status W	k-wrap the who	le table, and some

C/ 59 SC 59.2.4.1 Dawe, Piers	P 200 Agilent	L 41	# 574	C/ 59 SC 59 . Dawe, Piers	2.4.2	P 201 Agilent	L 6	# 577
	aking it lower does not for ay like to, to allow ease of applace legacy transceivers	ce implementers use of more sens s' OFF power act	to lower their signal itive receivers. ually is. Pick a number	bound for signal detect levels - bu	nise signal d detect, mak ut they may	ing it lower does not for	ce implementers use of more sen	sitive receivers. Legacy
PROPOSED ACCEPT IN	Response Status W PRINCIPLE. I number. Need more data	on existing parts	5.	Proposed Response PROPOSED AC See 574	CEPT IN PF	-		
change to "Receive sensi	ity" to "Receive sensitivity			SuggestedRemedy	E C Clause 60, a nsitivity, add <i>Re</i>	P 201 Corning Incor omment Status D dd clarification to receiv "(max) in Table 59-9." esponse Status W RINCIPLE.		# 442
PROPOSED ACCEPT IN See 441 Cl 59 SC 59.2.4.1 Swanson, Steve Comment Type E Consistent with Clause 60 SuggestedRemedy After receive sensitivity in	P 200 Corning Incor <i>Comment Status</i> D , add clarification to receive	re sensitivity in Ta	# 441	Cl 59 SC 59. Thatcher, Jonathan Comment Type E Reference to 59. SuggestedRemedy See comment Proposed Response PROPOSED AC	E C 14 should b <i>Re</i>	P 201 World Wide P omment Status D e 59.13	L 19 ackets	# <mark>829</mark>

C/ 59 SC 59.3 Swanson, Steve	P 201 Corning Incorp	L 31	# 443	C/ 59 Thatcher,	SC 59.3.1 Jonathan	P 202 World Wide P	L 12 ackets	# 831
Comment Type E Clarify singlemode fiber	Comment Status D			Comment		Comment Status D		DUP 445
SuggestedRemedy Add "Type B.1.1, B.1.3"	before "SMF" under fiber typ	e in Table 59-3	3.	Suggestee See c	dRemedy omment			
Proposed Response PROPOSED ACCEPT.	Response Status W				Response POSED ACCEPT.	Response Status W		
Cl 59 SC 59.3.1 Swanson, Steve	P 201 Corning Incorp	L 47 porated	# 444	See 4	45 SC 59.3.1	P202	L16	# 580
Comment Type E	Comment Status D			Dawe, Pie		Agilent	210	# 380
Redundant text. SuggestedRemedy Delete text in lines 47-4	9.				h power on SMF	Comment Status D should be higher.		
Proposed Response	Response Status W			Suggestee -9.5 d	-	change the MMF launch pow	ers.	
	IN PRINCIPLE. 9. The text listed here is really in 59.3.1 and is therefore not		Table 59-4 but is	,	Response POSED ACCEPT.	Response Status W		
Cl 59 SC 59.3.1 Thatcher, Jonathan	P201 World Wide Pa	L 47	# 830	C/ 59 Dawe, Pie		P 202 Agilent	L18	# 586
Comment Type E Remove "a."	Comment Status D		DUP 444	Comment Trying 59-1).	to harmonise Tx	Comment Status D OFF power limits towards -4	5 dBm (see ano	DUP 574 ther comment for table
SuggestedRemedy See comment					hat in-production	transceivers' OFF power ac		
Proposed Response PROPOSED ACCEPT.	Response Status W					the new number for table 59-		
See 444					Response POSED ACCEPT	Response Status W IN PRINCIPLE.		
C/ 59 SC 59.3.1 Swanson, Steve	P 202 Corning Incorp	L12 porated	# 445	See 5	74			
Comment Type E Missing entry in Table 5	Comment Status D 59-4.							
SuggestedRemedy For RMS spectral width	, enter "See Table 59-5."							
Proposed Response PROPOSED ACCEPT.	Response Status W							
TVPE: TR/technical required	d T/technical E/editorial C(JAMENIT STA	TUS: D/dispatched_A/accent	ad R/rejected		· Clause Page Line Subcl	ausa Pa	are 119 of 190

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Cl 59 Dawe, Pier	SC 59.3.1	P 203 Agilent	L1	# 581	<i>Cl</i> 59 Dawe, Pie	SC 59.3.1.1 rs	P 202 Agilent	L 34	# 582
Comment	Туре Е	Comment Status D	- fan tablaa fan n		Comment	Туре Е	Comment Status D		DUP 445
r nave	• •	te table 59-5. But people pr	eter tables for h	ormative specs, they are	Wrong	•			
Suggested		Don't delete the tables.			Suggested 59-5	акетеау			
Proposed F	0 1	Response Status W			Proposed PROP	Response OSED ACCEPT.	Response Status W		
C/ 59	SC 59.3.1.1	P 202	L 32	# 446	See 4 C/ 59	45 SC 59.3.1.1	P 202	L34	# 832
Swanson, S		Corning Inco	porated		Thatcher,		World Wide	-	# 832
Comment T Redun	<i>Type</i> E dant text.	Comment Status D		DUP 583	Comment Maxim		Comment Status D h "vs Center wavelength" fo	or is shown in "T	Table 59-5"
Suggested		ectral width. dangling subclu	uase that is alre	adv referenced in Table	Suggested	•		Ji 13 Shown in	
59-4.	59.5.1.1 KING SP	ectral width. dangling subch	uase li lat is alle	ady relefenced in Table	Fix fre	qency and refere	nce per comment.		
Proposed F PROP	Response OSED REJECT.	Response Status W			,	Response OSED ACCEPT.	Response Status W		
See 58	33				C/ 59	SC 59.4	P 203	L 47	# 452
C/ 59	SC 59.3.1.1	P 202	L 34	# 583	Swanson,		Corning Inc	orporated	
Dawe, Pier		Agilent			Comment Correc	51	Comment Status D d move Table to coincide w	ith text in 59.4.	
Comment T Add so	<i>Type</i> E ome clarification	Comment Status D			Suggested				
Suggested	Remedy				Fiber	Type column sho	uld read "Type B1.1, B1.3 \$	SMF"	
these li	imits, particularly	bectral limits may be found b the wider ones, are not in th enalty, and the TDP requiren	nemselves adeq	uate to guard against an	Proposed PROP	Response OSED ACCEPT.	Response Status W		
Proposed F		Response Status W			CI 59	SC 59.4.1	P 203	L15	# 447
PROP	OSED ACCEPT.				Swanson,	Steve	Corning Inc	orporated	
					Comment Correc	<i>Type</i> T ct Table entry.	Comment Status D		
					Suggested "3.5" s	<i>Remedy</i> hould read "3.50	"		
					Proposed PROP	Response OSED ACCEPT.	Response Status W		
							ould be specified to a precis bles. For example, in Table		0

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 V/unsatisfied Z/withdrawn
 C/ 59
 SC 59.4.1

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		1 002.0411	
C/ 59 SC 59.4.1 Swanson, Steve	P203 L21 Corning Incorporated	# 448	C/ 59 SC 59.4.1 P 203 L 35 # 450 Swanson, Steve Corning Incorporated
Comment Type T Table entry incorrect.	Comment Status D		Comment Type T Comment Status D Receive sensitivity not in line with Clause 38 and stated power budgets.
SuggestedRemedy "1.47" should read "3.06"	in Table 59-5.		SuggestedRemedy Change receive sensitivity to -19 dBm
Proposed Response PROPOSED ACCEPT IN Value should match Epsil	-		Proposed Response Response Status W PROPOSED REJECT. This point was reviewed at the time of selecting baseline proposals. The group accepted the specifications of the de facto industry practice that supports 10 km link length and -20 dBm sensitivity.
C/ 59 SC 59.4.1 Swanson, Steve	P203 L22 Corning Incorporated	# 449	Cl 59 SC 59.4.1 P 203 L 38 # 451 Swanson, Steve Corning Incorporated
Comment Type T Table entry incorrect.	Comment Status D		Comment TypeTComment StatusDDUP 4Missing entries in Table 59-6.
SuggestedRemedy "2.5" should read "2.58" ir	n Table 59-5.		SuggestedRemedy Include recommended values for stressed receiver sensitivity and vertical eye closure in Table 59-6.
PROPOSED ACCEPT IN			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Value should match Epsil	on curves		Need final values. See comment 46
C/ 59 SC 59.4.1 Thatcher, Jonathan	P203 L34 World Wide Packets	# 834	C/ 59 SC 59.4.1 P 203 L 4 # 833 Thatcher, Jonathan World Wide Packets World Wide Packets B 33
Comment Type T Missing "(min)" from lines	Comment Status D		Comment Type T Comment Status D DUP 58
SuggestedRemedy Fix per comment	Response Status W		 RMS specral width is a "(max)" as is RMS to acheive epsilon" Center wavelengths should be like: "1260 <= Lambda < 1270" up to 1350 which would be "1350 <= Lambda <= 360" in Table 59-5 Remove row for 1360 Center the specs in the columns
PROPOSED ACCEPT.			SuggestedRemedy Fix per comment
			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
			See 583. (Also 581)

SC 59.4.1

			1 002.5411	Draft 1.0 Comments			
C/ 59 SC 59.4.1 Swanson, Steve	P 204 Corning Incor	L1 porated	# 453	C/ 59 SC 59.4 Dawe, Piers	.1 P 204 Agilent	L 9	# 589
Comment Type E Several Entires in Tabl SuggestedRemedy	Comment Status D es 59-8 and 59-9 can be strad	dled.		Comment Type T The same spectra should be the sam	Comment Status D I limits for 1000BASE-BX downst te.	ream and for 100	00BASE-PX downstream
	raddle columns with identical	entries		SuggestedRemedy			
Proposed Response PROPOSED ACCEPT	Response Status W				pectral width "0.4" with "See tables se 58. Consider removing the ta		
C/ 59 SC 59.4.1 Dawe, Piers	P 204 Agilent	L16	# 587	Proposed Response PROPOSED ACC	Response Status W EPT IN PRINCIPLE.		
Comment Type E	Comment Status D			May be a good to	have but we should check if there	e are any other in	nplications
	COFF power limits towards -4 buld be less of an issue for 10 <i>Response Status</i> W IN PRINCIPLE.			Cl 59 SC 59.4 Thatcher, Jonathan Comment Type T Talbe 59-9 missin SuggestedRemedy Fix per comment	.2 P 204 World Wide Comment Status D g "(min)" from lines 39, 41, 43, 45		# <mark>835</mark>
Actual value can be de	bated at the meeting			Proposed Response PROPOSED ACC	Response Status W		
SuggestedRemedy Replace spectral width	P204 Agilent Comment Status D limits for 1000BASE-BX upst "2" with "See table 59-5". Cf spectral limits" or "1000BASE- Response Status W IN PRINCIPLE.	ange title of tab	ole 59-5 to "1000BASE-X	Cl 59 SC 59.5 Swanson, Steve Comment Type E Make 59 consiste SuggestedRemedy	P 204 Corning Inco Comment Status D		# <u>454</u>

CI 59 SC 59.5 P 205 L 7 # 455 Swanson, Steve Corning Incorporated Corning Incorporated	C/ 59 SC 59.6 P 205 L 24 # 837 Thatcher, Jonathan World Wide Packets
Comment Type T Comment Status D No entries for SMF in Table 59-10	Comment Type TR Comment Status D Table 59-11: there should be specifications for both 1310 and 1550 nm.
SuggestedRemedy Add the following entries:	SuggestedRemedy Add another SMF column. ID one as 1310, and the other as 1550.
Link power budget 8.0 dB Channel insertion loss 4.57 dB	Proposed Response Response Status W PROPOSED ACCEPT.
Allocation for penalties 3.27 dB Additional insertion loss allowed 0.16 dB	CI 59 SC 59.6 P205 L33 # 456
Proposed Response Response Status W	Swanson, Steve Corning Incorporated
PROPOSED ACCEPT IN PRINCIPLE. Values needed per power calculation from spreadsheer and baseline and they need to be	Comment Type T Comment Status D Missing entries in Table 59-11.
adjusted per group discussion on harmonization of channel insertion loss values across Clauses 58, 59 and 60.	SuggestedRemedy Add the following entries in Table 59-11:
C/ 59 SC 59.5 P 205 L 8 # 836 Thatcher, Jonathan World Wide Packets World Wide Packets	Channel insertion loss 6.2 dB Allocation for penalties 3.2 dB
Comment Type TR Comment Status D DUP 857	Additional insertion loss allowed 1.6 dB
We should have consistent power budgets between 100Mb/s, 1Gb/s and possibly even 10 Gb/s. Need to reference a single set of fiber specifications for 10km, P2P fiber plants.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy	Values needed per power calculation from spreadsheet and baseline, and they need to be
Minimally, need both BIDI (100 Mb and 1 Gb) using the same fiber plant specifications and both dual fibers (100 Mb and 1 Gb) using the same fiber plant specification.	adjusted per group discussion on harmonization of channel insertion loss values across Clauses 58, 59 and 60.
Ideally, BIDI's should be the same fiber specification as the dual fibers (meaning that a BIDI should work on a dual fiber plant).	C/ 59 SC 59.8 P 206 L 11 # 839 Thatcher, Jonathan World Wide Packets World Wide Packets B39 B39
It would be wonderful if this could be true for 10G dual fiber as well.	Comment Type TR Comment Status D
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Tables 59-12 and 59-13: why aren't TP2 and TP3 specified the same way Clause 60 is, using TDP?
To be discussed with general fiber plant discussion.	There is no reason to have different specification means in EFM P2P
More specific remedy would be apprieciated in TR comment.	SuggestedRemedy Use consistent specification methods
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	Will discuss further at meeting.

C/ 59 SC 59.8 P206 L8 # 838	C/ 59 SC 59.9.1 P206 L53 # 840
Thatcher, Jonathan World Wide Packets	Thatcher, Jonathan World Wide Packets
Comment Type TR Comment Status D DUP 50 TP1 and TP4 in Tables 59-12 & 59-13 should be the same as 1000BASE-LX. SuggestedRemedy Make it so. Make it so.	Comment TypeTComment StatusD1. Not clear if epsilon should be normative or informative.2. Use greek letter instead of "e"3. What does "10-3 times the signaling speed" mean? 10e3?4. Pag 207, line 1: what does "speed(59-x)" mean?
Proposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy Per comment.
CI 59 SC 59.8.9 P 209 L # 697 Diab, Wael William Cisco Systems E Cisco Systems E <td>Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.</td>	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Comment Type TR Comment Status D TDP is the appropriate method for evaluating PMDs. Nonetheless, given the speed of these PMDs and the short-term desire to implement solutions (as expressed in the original	Will use a greek letter (epsilon) for epsilon. Epsilon is informative; rms spectral width is normative. The scalar constant is 0.001 when signaling speed is defined in Gbaud and total dispersion is in picoseconds. The reference to (59-x) is a typo and will be removed.
proposal presentations), an informative that relates traditional measurement techniques to TDP may help bridge the gap.	Cl 59 SC 59.9.1 P207 L1 # 457
SuggestedRemedy	Swanson, Steve Corning Incorporated
Specify an informative correlation between the TDP measurements and the eye mask and/or the jitter numbers	Comment Type E Comment Status D Equation number misplaced and missing.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy Add equation number right justified (59.1?)
Need more work	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 59 SC 59.9 P 206 L 41 # 887 Tom Murphy Infineon	Equation number 59-1 will apply to the transfer function given on page 207, line 51, in subclause 59.9.7.
Comment Type T Comment Status D DUP 871 The majority of BiDi devices use a pigtail construction. Hence, a patch cord is not needed for this measurement D<	C/ 59 SC 59.9.1 P207 L3 # 889 Tom Murphy Infineon
SuggestedRemedy All optical measurements shall be made through a short patch cable or pigtail, between 0.5 and 5 m in length	Comment TypeTComment StatusDDUP 871The language here is such that one has the opinion that column 2 is the only viable option. This is not the case in reality.
Proposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE.	Remove the sentence "However, partition noise". If the spectral width is kept below the limits of column 3. epsilon will not exceed 0.115 and the chromatic dispersion penalty is expected to be below 2 dB when all link parameters are simultaneously at worst case values.
See 871	Proposed Response Response Status W

See 871

P802.3ah	Draft 1.	.0 Comments
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C/ 59 SC 59.9.13 P 210 L 21 # 844 Thatcher, Jonathan World Wide Packets World Wide Packets B44	C/ 59 SC 59.9.15 P 212 L 1 # 846 Thatcher, Jonathan World Wide Packets World Wide Packets B46
Comment Type T Comment Status D Do we really need CPR if the offset patch cord does the trick?	Comment Type E Comment Status D If this subclause is identical to clause 38, then just reference C38.
SuggestedRemedy Recommend removing CPR(but not offset patch cord for MMF). Proposed Response Response Status W	SuggestedRemedy One of: 1. Put in editors note saying that this will be removed at final publication with reference to 38.6.12, or
PROPOSED ACCEPT IN PRINCIPLE. C/ 59 SC 59.9.14 P210 L27 # 845 Thatcher, Jonathan World Wide Packets	2. Do it now. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Comment Type TR Comment Status D If new method is good enough for 10 Gig and for C 60, why isn't it good enough here? This method is known to be difficult to implement.	For now EFM clauses should be self contained. Can add note and decide on deleting nea publication
SuggestedRemedy Replace TP3 Rx conformance test with new method. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	CI 59 SC 59.9.15 P 212 L 48 # 463 Swanson, Steve Corning Incorporated Comment Type E Comment Status D Incorrect reference.
To be debated at the next meeting	SuggestedRemedy Reference should read "IEC 60950."
C/ 59 SC 59.9.14 P 210 L 29 # 567 Dawe, Piers Agilent	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type T Comment Status D Per D1.0 comment 627, we decided to use a clause 52 style stressed eye generator. The argument against the clause 38 style generator is that people don't like spending the time doing the iterative roll-your-own process of building and calibrating a home-made stressed	CI 59 SC 59.9.3 P 207 L 17 # 585 Dawe, Piers Agilent Comment Type E Comment Status D
eye generator. The argument against the clause 52 style generator is the same! An informative stressed sensitivity spec is probably a good thing for MMF use.	Following up the extinction ratio pattern change to allow near-service measurement, secon thoughts about best practice wrt reflections. Anyone know the 20-bit binary sequence for
SuggestedRemedy Debate again. One outcome is to reference what's in clause 60. If clause 60 doesn't need stressed sensitivity (because path distortion is expected to be low), copy all that stuff to here	SuggestedRemedy Change "This reflections" to "This measurement is made with the node transmitting a repeating I2 pattern (binary xxxxxxxxxxxxxxxxxxx)."
and let clause 58 refer to it.	Proposed Response Response Status W

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

For now we will keep all test procedures in Clause 60 for easier maintenance. An editor's note could be added in C60 to clarify that the MMF sections only apply to C59

Pattern could be referenced to the PMA clause for 1G

SC 59.9.3

PROPOSED ACCEPT IN PRINCIPLE.

			P802.3an D	rait 1.0 Comments			
C/ 59 SC 59.9.4 Thatcher, Jonathan	P 207 World Wide Packe	L 20 ets	# 841	CI 59 SC 59.9.7 Thatcher, Jonathan		L30 ide Packets	# 843
Comment Type TR Subsection 59.9.4 ha	Comment Status D as no meaning if there are no specifi	cations in the tabl	DUP 458 es.	Comment Type T Use same eye mas	Comment Status D k for C59 and C60		
SuggestedRemedy Either put specs in ta	bles, or remove subclause. Make c	onsistent with C60).	SuggestedRemedy Replace with C60 e	eye mask. Interoperability wi	th LX should not be a	an issue.
Proposed Response PROPOSED ACCEF	Response Status W T IN PRINCIPLE.			Proposed Response PROPOSED REJE	Response Status W	1	
See 458 C/ 59 SC 59.9.4	P 207	L 21	# 458	The two eye masks C60.	are different to account for	the unbalanced natu	re of 4B5B signaling for
Swanson, Steve	Corning Incorpora		# 458	CI 59 SC 59.9.7 Thatcher, Jonathan		L 5 lide Packets	# 842
Reference to Clause SuggestedRemedy		n common text bet	ween 58, 59, and	Comment Type E Line 5: put spaces Line 20: spelling of SuggestedRemedy	Comment Status D into the forumla; hard to rea "reqwuired"		
Proposed Response PROPOSED REJEC	Response Status W T.			Fix Proposed Response PROPOSED ACCE	Response Status W	1	
The idea is to mainta	in common procedural text in one c	lause for easier m	aintenance	C/ 59 SC 59.9.7	7 P208	L7	# 460
C/ 59 SC 59.9.6 Swanson, Steve	P 207 Corning Incorpora	L 34 ted	# 459	Swanson, Steve		Incorporated	# 460
Comment Type E Missing space after f	Comment Status D irst sentence.			Missing equation no			
SuggestedBarnedy				- ggootoar torriouy			

SuggestedRemedy

Add a space.

Proposed Response

PROPOSED ACCEPT.

Response Status W

P802 3ab Draft 1.0 Comments

PROPOSED ACCEPT. Assign equation number 59-2 to the collection of expressions for

Response Status W

variables used in support of the equation for the transfer function. This is consistent with the style adopted by Clause 52, subclause 52.9.7. See also comment 457, which will assign equation number to the parent equation.

Add equation number right justified.

Proposed Response

C/ 59 SC 59.9.8	P 208	L 48	# 568	CI 59 SC 59.9		L16	# 462
Dawe, Piers	Agilent			Swanson, Steve	Corning Inco	orporated	
isn't, and the strict ma	Comment Status D d out if risetime spec is necess isk of this clause will be enougl			Comment Type E Reference to Clau SuggestedRemedy	Comment Status D se 60 is provided.		
better before the mee SuggestedRemedy	ting.			,	eated here? Many subclauses h	ave identical text.	
As discussed at the m	neeting.			Proposed Response	Response Status W		
Proposed Response PROPOSED ACCEP	-				ause 60. A brief introduction to r	nake the section r	more reader friendly is
Will be reported at in	the meeting.			CI 59 SC 6	Р	L	# 49
SC 59.9.8 wanson, Steve \$\$	P 209 Corning Incor	L 4 porated	# 461	Tatum, Jim	Honeywell Comment Status D	_	
Comment Type E Missing equation num	Comment Status D			Comment Type TR Table 59-11 conta Table 59-11 is mis	ins references to fiber modal ba	ndwidth	
SuggestedRemedy Add equation number					rding modal bandwidth gh spreadsheet analysis at mee	ting	
Proposed Response PROPOSED ACCEP	Response Status W T.			Proposed Response PROPOSED ACC	Response Status W	Ū	
C/ 59 SC 59.9.9 Dawe, Piers	P 209 Agilent	L 14	# 584	delete first two rows in Table 59-11. The editor proposes a channel insertion changing "link power penalties" to "allocation for penalties" and specifying			
Comment Type E Align title with 60 (as i	Comment Status D modified)			changing "unalloca	ated margin in link budget" to "ad	dditional insertion	loss" allowed at 1.6 d
SuggestedRemedy Change "Transmitter	dispersion penalty" to "Transm	itter and dispersi	on penalty (TDP)"				

Response Status W

Proposed Response

PROPOSED ACCEPT.

			P802.3a	ah Draft 1.0 Comments
C/ 59 SC 8 Tatum, Jim	<i>P</i> Honeywell	L	# 50	0.332 266 0.212
Comment Type TR Table 59-12 is incomplete	Comment Status D			170 TP4 0.749
SuggestedRemedy Use values from clause 3	8 as baseline values			599 0.462 370
Proposed Response PROPOSED ACCEPT IN	Response Status W PRINCIPLE.			
add the following text: Numbers in the Table 59- include low frequency jitte	12 represent high frequency or wander. All values are in	jitter (above 6 nformative.	37 kHz) and do not	
Table 59-12 -1000BASE- Compliance point Total jitter Deterministic jitter	EX jitter budget			
UI ps UI ps TP1 0.240 192 0.100 80 TP1 to TP2 0.284 227 0.100 80 TP2 0.431 345 0.200 160 TP2 to TP3 0.170 136 0.050 40 TP3 0.510 408 0.250 200				

P802.3	ah Draft 1.0 Comments
C/ 59 SC 8 P L # 51 Catum, Jim Honeywell Honeywell Comment Type TR Comment Status D Table 59-13 is incomplete SuggestedRemedy Use values in clause 38 table 38-10 as baseline values.	0.332 266 0.212 170 TP4 0.749 599 0.462 370
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	C/ 59 SC 9.10 P L 26 # 53 Tatum, Jim Honeywell
add the following text: Numbers in the Table 59-13 represent high frequency jitter (above 637 kHz) and do not include low frequency jitter or wander. All values are informative. Table 59-13 -1000BASE-EX jitter budget	Comment Type E Comment Status D 59.6.11 reference is wrong SuggestedRemedy replace with 59.9.14
Compliance point Total jitter Deterministic jitter	Proposed Response Response Status W PROPOSED ACCEPT.
UI ps UI ps	CI 59 SC 9.11 P L # 54 Tatum, Jim Honeywell Encode of the section should be noted as informative since we are going to TDP techniques. Function of the section should be noted as informative since we are going to TDP techniques.
TP1 0.240 192 0.100 80 TP1 to TP2 0.284	All "shalls" need to be removed SuggestedRemedy add informative to title of section, replace "shall" with appropropriate grammatical words. Proposed Response Response Status W
227 0.100 80 TP2	PROPOSED ACCEPT. C/ 59 SC 9.15 P L7 # 55 Tatum, Jim Honeywell
0.431 345 0.200 160	Comment Type E Comment Status D Is reference to 36A.5 valid?
TP2 to TP3 0.170 136	SuggestedRemedy If not, replace.
0.050 40 TP3	Proposed Response Response Status W PROPOSED REJECT.
0.510 408 0.250 200 TP3 to TP4	it is believed that reference to 36A.5 is correct

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 129 of 190 C/ 59

SC 9.15

				P802.3a	h Draft 1.0 Comments
Cl 59 SC Tatum, Jim	9.3	<i>P</i> Honeywell	L17	# 52	C/ 59 SC Table Radcliffe, Jerry
Comment Type reference to c	E Comn lause 36A valid?	nent Status D			Comment Type T Stressed receiver so
SuggestedRemed		finition section in AF	1?		SuggestedRemedy Remove the stresse
Proposed Respor PROPOSED	•	nse Status W			Proposed Response PROPOSED ACCE
it is believed t	hat reference to 36	A.2 is correct			For further discussion
C/ 59 SC John George	General	P General OFS	L	# 891	C/ 60 SC Dawe, Piers
SuggestedRemed Change "SMF Proposed Respor	ly " to "B1.1, B1.3 SN se Respon	n table colunm head IF" in all applicable nse Status W	C C	t with clauses 58 and 60 , 10, 11, 14, 15, 16	Comment Type E Wordsmithing: Now that CDRH and "shall" and one PIC There are 100BASE Is the word "certified certification, so a fu
PROPOSED	ACCEPT.				SuggestedRemedy
CI 59 SC Radcliffe, Jerry	Table 59-4	P 202 Hatteras Netw	L 16 orks	# 294	100BASE-LX and 1 requirements as def single fault condition
	transmitter power	<i>nent Status</i> D numbers in the table e baseline proposal) And just to tidy thing additional" onto t
mentioned. Th	ne table should be	prought in line with t	he baseline prop	osal.	Proposed Response
		ver to be 0.5dB lowe	er than the SMF	power similar to	PROPOSED ACCE
1000Base-LX					This comment appli
SuggestedRemed	5				
Change the tr	ansmitter power to	-9.5dBm for the SM	F case and -10.0	dBm for the MMF	

cases.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See 580

Cl 59 Radcliffe, Je	SC Table erry	e 59-9	P 204 Hatteras Ne	L 42 etworks	# 293
Comment T Stresse			ment Status D	test for a single m	node receiver
SuggestedF Remove	-	sed receiver s	ensitivity requirem	et from the table	
Proposed R PROPC	,	Respo EPT IN PRIN	onse Status W CIPLE.		
For furt	her discuss	sion in Kauai			
Cl 60 Dawe, Piers	SC		<i>P</i> Agilent	L	# 541
"shall" a There a Is the w	at CDRH and and one PIG are 100BAS ord "certifie	CS entry). SE-X optical tr ed" needed?	ansceivers (e.g. 1	00BASE-FX) not s n clause 52. Doe	e given (can remove subject to this clause is the PICS count as
requirer single fa And jus	SE-LX and ments as de ault conditions t to tidy thir	efined in the I ons whether c	coupled into a fiber	r any condition of or out of an oper	operation. This inclu
addition					
Proposed R		Respo	onse Status W		

P802.3ah Draft	1.0 Comments
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C/ 60 SC 60	Р	L	# 496	C/ 60 SC 601	P 229	L 25	# 499
Dawe, Piers	Agilent			Dawe, Piers	Agilent		
Comment Type T	Comment Status D			Comment Type E	Comment Status D		
	velength: The average of two y is 50% of the maximum va			"EX" for extinction ratio.	d to mean error ratio (as in Bl	ER and alone).(G.957 and TS-1000us
SuggestedRemedy				SuggestedRemedy			
Log the question under	1.4, definitions			Replace "ER" with "extin with "EX".	nction ratio" eight times in thi	is clause, and in	the equations replace
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCEPT.	Response Status W		
	nto editor's box at the front of			C/ 60 SC 60.1 Dawe, Piers	P 226 Agilent	L14	# 488
C/ 60 SC 60	P 225	L1	# 572	Comment Type E	Comment Status D		
Dawe, Piers	Agilent				to the reader. We can make	it even more use	ful by adding a furth
Comment Type E Not baseband, it's inter	Comment Status D				y-product of allowing us to de		
	isity modulated.			SuggestedRemedy			
SuggestedRemedy Delete "baseband".					num total channel loss". Take note "At the nominal waveler		ble 60-13, with any
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 60 SC 60 Dawe, Piers	P 225 Agilent	L16	# 571	C/ 60 SC 60.1 Dawe, Piers	P 226 Agilent	L16	# 491
Comment Type E	Comment Status D			Comment Type E	Comment Status D		
	nments 254, 255 seem to have	ve been accepte	ed but not acted on.	Use "straddled" or merg reduce clutter.	ged cells to stress that some	entries are comm	non by design, and to
SuggestedRemedy				SuggestedRemedy			
Insert in editor's box un Update 1.4.15 definitior	der "Definitions (to be added n of 100BASE-X.	l to 1.4):",		Merge the three "fiber ty	ype" cells. Merge the three r three wavelength cells sep		
Then it won't get forgot	ten as we move forward.			was not a necessary co	nsequence of the objectives.		
Proposed Response	Response Status W			Proposed Response	Response Status W		

SC 60.1

			F 602.3411 L	
C/ 60 SC 60.1 Dawe, Piers	P 226 Agilent	L16	# 489	C/ 60 SC 60.1 Jonsson, Ulf
the range 0.1 ~< x with km, well unde	Comment Status D omments 287, 275. Especially with < < 1000 - unless the next prefixed erstood and used in clauses 8, 9, 1 netimes in compound units e.g. dB	unit up/down is 0, 12, 13, 15, 24	disliked. Nothing wrong	Comment Type E Clause 24 is not a SuggestedRemedy Add *ref*
SuggestedRemedy Change "Minimun	n range (meters)", "0.5 to 10000" to	o "Minimum rang	e", "0.5 m to 10 km".	Proposed Response PROPOSED ACC
Proposed Response PROPOSED ACC	Response Status W			C/ 60 SC 60.1 Dawe, Piers
C/ 60 SC 60.1 Dawe, Piers	Agilent	L 21	# 506	Comment Type T MDIO Clause yy: a pure clause 45
Comment Type E Cover the basics. SuggestedRemedy	Comment Status D			SuggestedRemedy Change yy to "22
Add sentences "A 100BASE-BX link PMD at the other. the network ("dow	100BASE-LX link uses 100BASE- uses a 100BASE-BX-OLT PMD at Typically the 1550 nm band is use nstream") and the 1310 nm band t ngement, or the notion of hierarchy	one end and a ed to transmit av owards the cent	100BASE-BX-ONU vay from the center of er ("upstream"),	Proposed Response PROPOSED ACC Don Pannel will gi today's Clause 22
Proposed Response	Response Status W			experts how to be
PROPOSED ACC C/ 60 SC 60.1		L3	# 486	C/ 60 SC 60.1 Jonsson, Ulf
Dawe, Piers Comment Type E	Agilent Comment Status D	LJ	# 486	Comment Type T Which Manageme
	ing (3 details): change "100BASE-	LX PMD and the	e 100BASE-BX PMD	Don Pannel has a Clause 22 CPU's
SuggestedRemedy 100BASE-LX PM	D and 100BASE-BX PMDs and the	emedium		SuggestedRemedy Use the Clause 4 Clause 22 interfac
Proposed Response PROPOSED ACC	Response Status W			Ask Ed Turner ho
PROPOSED ACC	EF1.			Ask Ed Turner no Proposed Response PROPOSED ACC

Cl 60 Jonsson, L	SC 60 Jlf	.1	P2 Erics	2 6 son AB	L 5	# 228
Comment Clause		E an auto	Comment Status matic cross-referer	-		
Suggested Add *re						
Proposed I PROP	Response OSED AC		Response Status	w		
CI 60	SC 60	.1	P2	26	L 6	# 487
Dawe, Pier	S		Agile	nt		
Comment	Type 1	Г	Comment Status	D		
Proposed I PROP	e yy to "22 Response OSED AC	CEPT II	Response Status N PRINCIPLE.			
today's	s Clause 2	22 CPU's		s propos	al is accepted w	se 45 registers using e have to ask the MDI
C/ 60	SC 60	.1	P2	26	L 6	# 229
	Jlf		Erics	son AB		
Jonsson, L Comment		-	Comment Status			
Jonsson, L Comment Which Don Pa	Type 1 Managen	nent Inte a propo	Comment Status orface yy? sal that enables ac	D	ne Clause 45 reç	jisters using today's
Jonsson, L Comment Which Don Pa	Type 1 Managen annel has 22 CPU	nent Inte a propo	Comment Status orface yy? sal that enables ac	D	ne Clause 45 reç	jisters using today's

Ask Ed Turner how to express this in the PMD Clause.

Proposed Response Response Status W PROPOSED ACCEPT.

Note another comment on same topic.

CI 60	SC 60.1.1	P 210	L1	# 99048	C/ 60	SC 6
Dawe, Piers	6	Agilent			Dawe, Piers	
	BER can't really	Comment Status R be necessary, being one (d d remarkably hard to extrap			Comment Ty If we add bother of	I a los
the gua technic	arantee in the sta al reason for der d packets. 10^-1	ndard) it will be met cost-efi nanding very low BERs is to 10 or 10^-11 seems enough	fectively. I under avoid TCP runn	stand the underlying ing slow when it sees	SuggestedRe Add a los	ss col
Suggestedl	Remedy				Proposed Re PROPOS	
Consid	er a more traditio	onal BER limit for all 100M F	PHYs.			
Proposed F		Response Status U			<i>Cl</i> 60 Dawe, Piers	SC 6
The PM	ID STF needs to	discuss the technical and e 0Mbps PHYs, especially in		pility for specifying a	Comment Ty Need to s	
		ncouraged to bring a revise	0		SuggestedRe "The may	ximur
C/ 60	SC 60.10	P 244	L 48	# 542	100BASE	
Dawe, Piers		Agilent			Proposed Re PROPOS	
Comment 7		Comment Status D			C/ 60	SC 6
Suggested		leserve a top-level subclaus	se to themselves.		Swanson, Ste	
Change Demote	e the title of 60.9 e 60.10 to 60.9.5	to "Environmental, safety a ce-paragraph onto the first.	nd labeling.		Comment Ty Incorrect	
Proposed F		Response Status W			SuggestedRe Delete "	-
C/ 60	SC 60.11	P 245	<i>L</i> 1	# 546	Proposed Re PROPOS	
Dawe, Piers		Agilent			PROPUS	
Comment 7 Anothe	<i>Type</i> E r very short top-l	Comment Status D evel subclause				
		to just before the present 6 comes 60.11.2.	60.12.1, so that it	becomes the new		
Proposed F	Response	Response Status W				

PROPOSED ACCEPT.

CI 60	SC 60.11	P 245	L23	#	543
Dawe, Pier	S	Agilent			

Е Comment Status D

oss column to table 60-1 we can delete table 13. Doing so would save us the rting out the nominal vs range aspect of wavelength.

edy

column to table 60-1 per another comment. Delete table 60-13.

Proposed Response	Response Status	w
PROPOSED ACCEPT.		

C/ 60	SC 60.11	P 245	L23	#	545
Dawe, Piers		Agilent			

т Comment Status D

e the minimum acceptable channel losses.

edy

um channel insertion losses are given in Table 60-13/1. The minimum loss for and 100BASE-BX is zero."

onse Response Status W ACCEPT.

CI 60	SC 60.1	11	P 24	45	L 26	#	472	
Swanson,	Steve		Cornii	ng Incorpora	ated			I
Comment	Туре Т	Con	nment Status	D				

erence; only single-mode fiber is referenced in this Clause.

edy

SI/TIA/EIA-526-14A [B14], Method B, and"

Response Status W nse

ACCEPT.

C/ 60	SC 60.1	1 P 245	L 38	# 284
Jonsson,	Ulf	Ericsson AE	3	
Comment	Туре Т	Comment Status D		DUP 857
We s	nould strive t	o specify a common cable plant	for all EFM P2P \$	SMF PMDs.
Suggeste	dRemedy			
	fy the same ctively.	channel insertion loss for all 131	0nm and 1550nm	P2P SMF PMDs
		loss (1310nm) = 7 dB loss (1550nm) = 6 dB		
Proposed	Response	Response Status W		
PRO	POSED ACC	EPT IN PRINCIPLE.		
		nd debate (as part of the generative of the gene	al plant discussio)	. Other comments relate # 544
Dawe, Pie	ers	Agilent		
Comment	Type T	Comment Status D		DUP 912
appro netwo effect fibre,	priate in an e ork with many ive. Upgrade or possibly to	what channel losses are reasor enterprise environment, we think v branching points and splices, s eability of fibre plant (to Gigabit I o other data rates) may be a cor undard should be consistent and	s, but we are hear significantly higher Ethernet or OC-12 neern but in my op	ing that in an access r losses may be cost 2, from dual to single inion cannot be
Suggeste	dRemedy			
fibre a inforn	as for single f nation in Ann	d choose higher loss limits. Ma ibre. If we wish to advise on up ex 64 and refer to it from here o een 100BASE-LX and 100BASE	grade paths to oth r in 60.12. if we v	ner data rates, put the vish to discuss
Proposed	Response	Response Status W		

PROPOSED ACCEPT IN PRINCIPLE.

See comment 912. Once losses are reviewed, appropriate reference text may be added for more information

Cl 60	SC 60.12	Р	L	#	549
Dawe, Piers		Agilent			

Comment Type T Comment Status D

Missing dB/km value for 1550 nm, error in 1310 nm. G.652 allows 0.5 dB/km for 1310 nm, OC-48 and below. We can sort the dB/km out or simply specify end-to-end loss which I think is in line with the operators' thinking. I prefer option 3c below.

SuggestedRemedy

1. Delete 0.4 dB/km for 1310 nm.

Option 2a Delete footnotes b and c.

Option 2b Use both references in one footnote.

Option 2c Use both references in 60.12.1.

Option 3a Insert 0.4 dB/km for 1550 nm.

Option 3b Delete all dB/km entries. We have stated the end-to-end loss elsewhere Option 3c Insert 0.4 dB/km for 1550 nm and make the dB/km entries informative. The quick way to do that is to insert "dispersion" on p245 line 44 before "specifications" and add a new sentence "The attenuation coefficients shown represent the requirements of fibre or cable standards G.652 and ANSI/TIA/EIA-568-B.3 [and IEC xxx?]. They are shown here for information only; the end-to-end channel loss shown in Table 60-1 is required.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The PMD STF needs to discuss this issue.

C/ 60	SC 60.12	P 2	46	L3	# 548
Dawe, Pie	ers	Agiler	nt	-	
Comment Tidyir	51	Comment Status	D		
Lines Re-sh Line	nrink-wrap the wh 12, change "and"	lle the dispersion entri nole table. ' to "which is the". 68B.3 to ANSI/TIA/EIA			
Proposed	Response	Response Status			

Dispersion entries are dealt with in a separate comment. Remianing editorial comments

accepted

P802.3ah Draft 1	.0 Comments
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C/ 60 SC 60.12.1 Dawe, Piers	Р 245 Agilent	L 53	# 547	Cl 60 SC 60.13 Dawe, Piers	P 247 Agilent	L1	# 552
Comment Type E I suspect most of table 60	Comment Status D 0-14 is in alignment with IE	C 60793-2, not e	exceptions to it.	Comment Type E Title not aligned with o	Comment Status D		
SuggestedRemedy Change "exceptions" to "	requirements".			SuggestedRemedy Trim the title in line wi	th title of clause.		
Proposed Response PROPOSED ACCEPT IN	Response Status W I PRINCIPLE.			Proposed Response PROPOSED ACCEP	Response Status W		
Check that Table 60-14 r change.	eally is in alignment with IE	C 60793-2. If so	, make the proposed	Cl 60 SC 60.13 Dawe, Piers	P 247 Agilent	L10	# 553
C/ 60 SC 60.12.2.1 Dawe, Piers	P 246 Agilent	L 24	# 550	Comment Type E Not all at once	Comment Status D		
	Comment Status D ess networks are different to	enterprise netw	DUP 857 orks and may contain	SuggestedRemedy Change "OLT, and" to	"OLT, or".		
	to appropriate values for 10			Proposed Response PROPOSED ACCEP	Response Status W		
separately. Maybe we ca	an learn from the experienc	e that went into	TS-1000.	Allign with the clause	60 title		
Proposed Response PROPOSED ACCEPT IN	Response Status W PRINCIPLE.			C/ 60 SC 60.2.1 Swanson, Steve	P 227 Corning Incor	L33 porated	# 470
The PMD STF needs to c	discuss this issue at large. I	Refer to Comme	nt 857 # 551	Comment Type E Incorrect reference.	Comment Status D		
awe, Piers	Agilent	L Z I	# 551	SuggestedRemedy			
omment Type E	Comment Status D			"100BASE-FX" should	read "100BASE-LX"		
Obsolete nomenclature				Proposed Response	Response Status W		
uggestedRemedy				PROPOSED REJECT			
Change subclause title to	o "Maximum discrete reflect ectance", "of e.g. a connec		he reader, in the	The reference to 100E old 100BASE-FX.	BASE-FX is just to point out the	at TP1 and TP4	is the same as for the
Proposed Response PROPOSED ACCEPT.	Response Status W						

raft 1.0 Cor	P802.3ah D				
C/ 60 Thatcher,	# 886	L 4	P 227 Infineon	SC 60.2.1	60 m Murphy
Comment	DUP 871		Comment Status D	e T	mment T
Tables	cord is not needed	n. Hence, a patc	ices use a pigtail constructio		
0				easurement.	for this r

SugaestedRemedv

Comment Type **T**

C/ 60

Tom Murphy

...is defined as the output end of a patch cord or pigtail (TP2),...

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See 871

Cl 60	SC	60.2.4	P 228	L11	# 492
Dawe, Pie	ers		Agilent		
Comment Comp		E he printou	Comment Status D		
Suggester Take tables	out one	,	arriage returns from tables	60-2 and 60-3 and	d re-shrink-wrap the
Proposed PROF	,	nse ACCEPT	Response Status W		

C/ 60	SC 60.2.4	P 228	L30	# 493
Dawe, Piers	3	Agilent		

Comment Type E Comment Status D

Duplicate truth tables. These two tables should be virtually identical, no need to spell it out twice. If we wanted different signal detect lower limits per PMD, we could put the limits in the receiver spec tables, but I believe they should be common across multiple PMD types which could be connected by accident.

SuggestedRemedv

Delete table 60-3. Replace "in Table 60–5" with "in Table 60–5 or Table 60–7 as appropriate". Change the title to either "100BASE-LX and 100BASE-BX SIGNAL_DETECT value definition" or simply "SIGNAL_DETECT value definition".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Prefer to use the suggested title: "100BASE-LX and 100BASE-BX SIGNAL_DETECT value definition"

Cl 60 Thatcher,	SC 60. Jonathan	2.4	P 2 World		L 6 Packets	# 855
Comment Table		Comi 60-3 should be	<i>ment Status</i> combined	D		
Suggester Comb						
•	Response POSED AC		onse Status	w		
<i>Cl</i> 60 Dawe, Pie	SC 60.:	3	P 2 Agiler		L 47	# 494
and th	ne differenc ort" a medii	e between then	n hardly cor	cerns	this clause. Als	 Here, there are just o, does a transceiver iver uses the medium
Suggeste			it the other v	way ro	ound, the transce	iver uses the medium
•	ce "support rly for 60.4	ts" by "operates , p 230.	s over"?			
	Response POSED AC	,	onse Status	w		
CI 60	SC 60.	3.1	P 2	29	L16	# 512
Dawe, Pie	rs		Agile	nt		
Comment We ad			<i>ment Status</i> n ratio of 6 d	_	d then discovered	d that the idle pattern
this P readir	MD, which	is the convenie	nt pattern fo	or test oplian	ing is 0101 This and satisfactory	is will cause a lower transmitter, which sh

_

guess we can round this off to 5 dB. SuggestedRemedy

5 dB for extinction ratio, -14.8 dBm or 32.9 uW.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

These are valid arguments for lowering the extinction ratio and need to be discussed by the PMD STF.

trade between extinction ratio and transmitter speed for satisfactory transmitters. A 6 dB

extinction ratio measured the Gigabit Ethernet way translates to 4.8 dB in this clause. I

mments

- -

C/ 60	SC 60.3.1	P 229	L17	# 498	C/ 60 SC 60.3.1
Dawe, Piers		Agilent			Dawe, Piers
unnece readily l level tes basis.	een suggested th ssary spec items be carried out on st, and we should And neither TS-1	Comment Status D nat a RIN spec is overkill who add cost, even if just in pap a normal Ethernet equipme d avoid specifying things whi 000 nor G.957 has a RIN sp	erwork. Also, it's nt, but relates mo ch can't be verifie	not a test that can bre to a component	Comment Type T If a transmitter has its spectrum extend Wavelength" (clear wavelength range", wavelength, maxim nm". Clause 38 ha
line 54: contribu Do the s Conside Proposed R	er removing the s "In addition, a R ttor to TDP." same in 60.4.1. er removing the " esponse	spec line from the table. The IN12OMA lower than -110 dl shall" in 60.8.7. <i>Response Status</i> W			SuggestedRemedy Question for the fib stretch the tempera Options: A Insert "Central" B Use "Operating spectral width.
RIN is c the RIN		DP measurement. During the moved, but that it would still n -110 dB/Hz.			Proposed Response PROPOSED ACCE The PMD STF need
<i>Cl</i> 60 Dawe, Piers	SC 60.3.1	Р 229 Agilent	L19	# 501	C/ 60 SC 60.3.2 Dawe, Piers
	yle guide 15.2 av	Comment Status D voids the Newspaper Headlir	ne Capitalization	Style.	Comment Type T We need to be clea received signal. Ar
Proposed R	return loss toler	ance" and check the rest of Response Status W	the clause for a f	ew more instances.	SuggestedRemedy Line 31: receiver se Line 41: received p Line 42: Receiver s Line 44: Receiver s
Cl 60 Thatcher, Jo	SC 60.3.1	P 229 World Wide P	L 24 ackets	# 856	Line 44. Receiver s Line 48: Stressed r Do the same in 60.
	ted mechanically	Comment Status D "? Is this some kind of weire a baccus or some kind of ol			Proposed Response PROPOSED ACCE The suggested cha
SuggestedF Someth	Remedy ing helpful would	l be helpful			the same terms as
Proposed R PROPC	esponse DSED ACCEPT II	Response Status W N PRINCIPLE.			
Replace	e computed mecl	nanically with derived			

C/ 60	SC 60.3.1	P 229	L 8	#	495
Dawe, Piers		Agilent			

Comment Type T Comment Status D

If a transmitter has a center wavelength of 1261 nm and a spectral width of 7 nm, a little of its spectrum extends around 1257 nm. Is it compliant or not? FDDI has "Central Wavelength" (clear, but its limits are within the cable limits), G.957 has "Operating wavelength range", and can go as far as 1260-1360. G.652 specifies the Cable cut-off wavelength, maximum 1260 nm. TS-1000 has "central wavelength of 1260 nm to 1360 nm". Clause 38 has "Wavelength (range) 1270 to 1355 nm".

Question for the fibre experts! We would like all the wavelength range possible so we can stretch the temperature range for reasonable manufacturing tolerances.

A Insert "Central" before wavelength.

B Use "Operating wavelength range" but define it as e.g. central wavelength +/- 1 RMS spectral width.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The PMD STF needs to discuss this issue.

CI 60	SC 60.3.2	P 229	L 31	# 500
Dawe, Piers		Agilent		

Comment Type T Comment Status D

We need to be clearer about what is a property of the receiver and what is a property of the received signal. And min and max.

Line 31: receiver sensitivity Line 41: received power Line 42: Receiver sensitivity (max) Line 44: Receiver sensitivity as OMA a (max) Line 48: Stressed receiver sensitivity Do the same in 60.4.2 and table 60-7.

Proposed Response Response Status W PROPOSED ACCEPT.

The suggested changes make the spec clearer. However, note that e.g. 1000BASE-LX uses the same terms as currently used in the tables.

CI 60	SC 60.3.2	P 229	L 47	#	502
Dawe, Piers		Agilent			

Comment Type T Comment Status D

Here are straw man values for a 100BASE-LX: revised nominal receiver sensitivity, stressed receiver sensitivity and vertical eye closure penalty. These assume a loss budget of 8 dB, being 10km * 0.5dB/km + 3dB for splices and connectors (this is a change from 2 dB and needs debate), and a TDP of 3.7 dB. They take into account the 101010... pattern used for OMA with this line code, which reduces the measured OMA causing the sensitivity to appear to get better, and the proposed 5 dB extinction ratio limit on this basis. These sensitivities should still be readily achievable, but if we think they are an issue we can raise the minimum transmit Pave to achieve a similar OMA to an OC-3 part.

SuggestedRemedy

Change receiver sensitivity from -25 to -26.9 P_ave, and to -26.8 dBm or 2.10 uW OMA. This is comparable to an ITU sensitivity of -27.5 dBm. Stressed receiver sensitivity -24.1 dBm P_ave. Vertical eye closure penalty 3.7 dB. The two sensitivities move in simple opposition to the loss budget.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The PMD STF needs to discuss this issue at large. This comment relates to comment 511 & 513 $\,$

C/ 60	SC 60.3.2	P 229	L 50	#	559
Dawe, Piers		Agilent			

Comment Type T Comment Status D

If we choose to stay with the current stressed eye conformance, need stressed eye jitter entries in tables 60-5 and 60-7.

SuggestedRemedy

Option 1 Abandon stressed eye conformance for these PMDs on the ground that there isn't enough path distortion to bother with.

Option2 Add another row to the table "Stressed eye jitter (min)? UI pk-pk. Add footnote "Vertical eye closure penalty and stressed eye jitter are test conditions for measuring stressed receiver sensitivity. They are not required characteristics of the receiver."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The PMD STF needs to discuss this issue.

CI 60	SC 60.3.2	P 229	L 51	# 503
Dawe, Piers		Agilent		

Comment Type E Comment Status D

Footnote b, "This equals the Return Loss of 1000BASE-LX" is confusing. I read it to be a statement about commonality of requirements between 100BASE-LX and 1000BASE-LX when I think it means to explain the terminology used.

SuggestedRemedy

In editors' box p225 under "Definitions" add "Reflectance". Define reflectance ratio as ratio of reflected to incident power (better check this with other standards, books etc.) and say that it is the inverse of return loss.

Change the footnote here and in 60.4.2 to "See 1.4.n for definition of reflectance".

Add further entries under "Definitions" to update 1.4.129, and 1.4.237 to mention 1000BASE-LX.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 60 SC 6	60.4	P 213	L	# 99049
Dawe, Piers		Agilent		
Comment Type	TR	Comment Status R		D1.0 #289

At present we are copying TS-1000 for power levels but saying the objective is 10 km while TS-1000 does 15 km. These statements are contradictory: a standard cannot demand things it doesn't need, or if it demands them it must put them to use. In the following comments I show how spec values which are compatible with TS-1000, but less onerous, can deliver our present 10 km objective, with a spec power budget reduced from 16 dB to 9 dB (1550 band) and 9 or 10 dB (1310 band). Part of the reduction is a sleight of hand: we are defining a worst-pattern sensitivity. Alternatively we could choose another reach in the range 10 to 15 km.

SuggestedRemedy

Use spec values for a 10 km link which are compatible but less onerous than TS-1000.

Proposed Response Response Status U

REJECT.

Piers to draft a letter. Work with the liason to engage the TTC committee to look at changes to the power budget to harmonize both TTC and EFM specifications.

						P802.3a
C/ 60	SC 60.4	P	230	L12	#	505
Dawe, Piers		Agile	nt			
Comment Ty	pe E	Comment Status	D			
		st necessarily be the the start it is the range o			-BX-OLT an	d 100BASE-
SuggestedRe Simplify " 12).	2	DLT and 100BASE	-BX-C	NU" to "100BAS	E-BX" the fi	rst time (line
Proposed Re PROPOS	sponse SED ACCEPT.	Response Status	w			
C/ 60	SC 60.4	P	230	L8	#	504
Dawe, Piers		Agile	nt			
Comment Typ Take the	pe E clutter out of th	Comment Status e title	D			
SuggestedRe PMD to N	-	cifications for 100B	ASE-E	3X		
Proposed Re PROPOS	sponse SED ACCEPT.	Response Status	w			
C/ 60	SC 60.4	P	230	L 8	#	507
Dawe, Piers		Agile	nt			
Comment Typ Removin		Comment Status	D			
SuggestedRe	emedy					
Change ' and 52, p	100BASE-BX-0	DLT and the 100BA I 40, and p232 line				
Proposed Re PROPOS	sponse SED ACCEPT.	Response Status	w			
C/ 60	SC 60.4.1	P	230	L 27	#	471
Swanson, Ste	eve	Corn	ing In	corporated		
Comment Ty Table ca	pe E n be reformatte	Comment Status	D			
SuggestedRe Straddle		ry columns in Tabl	es 60-	6 and 60-7.		
Proposed Re		Response Status				
·		-				

PROPOSED ACCEPT.

Cl 60	SC 60.4.1	P 230	L 32	# 497
Dawe, Piers		Agilent		
Comment	t <i>Type</i> T	Comment Status D		
	I think this is a t	und 1310 would not be 7 but 7 ypo but because it affects a ta		
Suggeste	dRemedy			
7.7 nr	m			
	Response POSED ACCEPT	Response Status W		
C/ 60	SC 60.4.1	P 230	L35	# 234
Jonsson,	Ulf	Ericsson AB		
Common	t Type T	Comment Status D		
Comment The p	51	6dB for 100BASE-BX seems	unnecessarily h	igh.
The p Suggestee	ower budget of 1 dRemedy			
The p Suggestee Invest	ower budget of 1 dRemedy	6dB for 100BASE-BX seems		
The p Suggester Invest Proposed PROF loss c for co	bower budget of 1 dRemedy tigate the possibli Response POSED ACCEPT characteristics of a impatibility with TS	6dB for 100BASE-BX seems in the P_ave (min) an	d Rx sensitivity t needs further s to enterprise, to	values. study to understar bear in mind the
The p Suggester Invest Proposed PROF loss c for co	bower budget of 1 dRemedy tigate the possibli Response POSED ACCEPT characteristics of a impatibility with TS	6dB for 100BASE-BX seems in ty to relax the P_ave (min) an <i>Response Status</i> W IN PRINCIPLE. This subject access networks as opposed to S-1000, and to address any de	d Rx sensitivity t needs further s to enterprise, to	values. study to understar bear in mind the
The p Suggester Invest Proposed PROF loss c for co a link.	<i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i> <i>Accepted</i>	6dB for 100BASE-BX seems in ity to relax the P_ave (min) an <i>Response Status</i> W IN PRINCIPLE. This subject access networks as opposed to S-1000, and to address any do ments on same topic.	d Rx sensitivity t needs further s to enterprise, to esire for an upg	values. study to understar bear in mind the rade of the data r

Change spec extinction ratios here to 7.1 dB. Change transmit OMAs to -12.7 dBm or 53.7 uW. Continue investigation and discussions.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE

The PMD STF needs to discuss this in relation to the TTC Harmonization presentation.

C/ 60 SC 60.4.1 Dawe, Piers	Р 230 Agilent	L 41	# 510	<i>Cl</i> 60 Dawe, Pie	SC 60.4.2 rs	P 231 Agilent	L11	# 513
Comment Type T This table may need an test. SuggestedRemedy Add optical return loss	Comment Status D n optical return loss tolerance tolerance, 12 dB.	spec, which wo	uld be used in the TDP	vertica + 3dB into ad	are straw man valu al eye closure pena for splices and cor ccount the 101010.	Comment Status D es for 100BASE-BX downst lty. These assume a loss b nectors (this is a change fr pattern used for OMA with the sensitivity to appear to g	oudget of 7 dB, t om 2 dB and ne n this line code,	being 10km * 0.4dB/km eds debate). They take
5	Orleans we decided that an c LX, and there doesn't seem to		•	Suggested Chang Stress is still Proposed	<i>Remedy</i> ge receiver sensitiv ed receiver sensiti	ity OMA to -27.7 dBm or 1.6 vity -25.6 dBm P_ave. Ver stimated by the model with <i>Response Status</i> W	59 uW OMA (sa tical eye closure	e penalty 4.1 dB. There
Cl 60 SC 60.4.1 Dawe, Piers Comment Type E Use the cell straddle to	P 230 Agilent Comment Status D	L 44	# <u>508</u>	_		discuss this issue at large.	This comment re	elates to comment 502 & # 857
SuggestedRemedy Signaling speed, off po 60-7. Proposed Response PROPOSED ACCEPT	wer, extinction ratio, eye mas Response Status W	sk in table 60-6, s	signaling speed in table		<i>Type</i> TR nel insertion loss (n sive, similar, comm	World Wide P Comment Status D neaning fiber specification) ent on C 59.		DUP 857 as Gig types. More
Cl 60 SC 60.4.2 Dawe, Piers Comment Type T Here are straw man va vertical eye closure pe + 3dB for splices and c into account the 10101	P 231 Agilent Comment Status D alues for 100BASE-BX upstrea nalty. These assume a loss to connectors (this is a change fr 10 pattern used for OMA wit	oudget of 8 dB, b rom 2 dB and ne h this line code,	eing 10km * 0.5dB/km eds debate). They take	Make Proposed PROF It wou	sure that 100Mb fit <i>Response</i> OSED ACCEPT IN Id be desirable to s	ber plant can be used for hig Response Status W N PRINCIPLE. Spec a common cable plant It will not be compliant with	among all EFM	P2P SMF PMDs.
SuggestedRemedy Change receiver sensi sensitivity -26.2 dBm P	ng the sensitivity to appear to tivity OMA to -27.7 dBm or 1.1 P_ave. Vertical eye closure p ne model with a TDP of 4.1 dE <i>Response Status</i> W TIN PRINCIPLE	69 uW OMA. St enalty 3.8 dB. T						
	o discuss this issue at large.	This comment re	elates to comment 501 &					

Page 140 of 190 C/ 60 SC 60.5

C/ 60 SC 60.5 Dawe, Piers	P 231 Agilent	L 31	# 514	C/ 60 SC 6 Dawe, Piers	0.7	P 231 Agilent	L 46	# 516
100BASE-BX 1550 ba	Comment Status D for power budget tables, 100B nd. There are discrepancies of e values are based on my othe	of ~0.3 dB here		Comment Type typo SuggestedRemedy Change "TP2"		Comment Status D		
1 0	6, 16 dB , 10 km (merge the two BX ce 8, 8, 7 dB (do we need a foc	,	t the fiber specification	Proposed Respons PROPOSED A	е	Response Status W		
wavelength of 1310 nn Power penalties 4.7, 5 Reserved margin 0.0,	n"?) 5.1, 6.7 dB		·	CI 60 SC 6 Jonsson, Ulf	0.7	P 231 Ericsson AB	L 48	# 241
Proposed Response PROPOSED ACCEPT	Response Status W			51		Comment Status D ng components which usually	specifies a hig	h-frequency jitter in the
	to comments 501, 511 & 513.			1. Clause 60.8. jitter that have	9 (transn corner B\	in the spec where we specify hitted eye) - here it is used to V less than x kHz (corner ma lget) - Here we spec a corner	insure that the sk is x kHz).	a TRx does not pass
7 60 SC 60.6 awe, Piers comment Type E	P 232 Agilent Comment Status D	L 4	# 517		reasonir	g the 100M ad hoc has conc	10	
CuggestedRemedy Options: A Use names of direct	are names of the ends of the l stions e.g. upstream, downstre g. "1310 nm band", " 1550 nm names of ends.	am	ed to specify directions.	SuggestedRemedy "(above 20/6 Remove editor Proposed Respons PROPOSED A	1 kHz)" s∣ s note. e	nould be changed to "(abov Response Status W	e 20 kHz)"	
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			C/ 60 SC 6 Dawe, Piers	0.7	P 231 Agilent	L 48	# 515
Proposal B seems most the column heading in	st appropriate. However, for co Table 60-8.	onsistency we t	nen also need to change	- · · · /	T for the ji	Comment Status D tter measurement corner. Th	is implies that	CDRs should have
C/60 SC 60.7 onsson, Ulf Comment Type Typo. TP2 should be T SuggestedRemedy	P 231 Ericsson AB Comment Status D P4.	L 46	# <mark>239</mark>	bandwidths at I SuggestedRemedy	east 20 k elete the e	Hz; if anyone thinks that they editor's note. In 60.8.8 p236 <i>Response Status</i> W	don't, speak u	p!
Change TP2 to TP4 Proposed Response PROPOSED ACCEPT	Response Status W Other comment(s) say the s	same.		A corner freq. c	of 20 kHz	was agreed to in the 100M a	d hoc.	

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 141 of 190 C/ 60

SC 60.7

C/ 60 SC 60.7	P 231	L 50	# 520	C/ 60	SC 60.7	P 232	L26	# 536
Dawe, Piers	Agilent			Dawe, Pie	rs	Agilent		
Comment Type E	Comment Status D			Comment	Туре Т	Comment Status D		
Could add some mo	pre explanation here					ecify the decision timing offset		
SuggestedRemedy						bclause so they can be chosen	per PMD (family	y).
	ty jitter at TP2 is constrained by			Suggested The de		offsets to be used in TDP assur	2000 (60.8.0.4)	ara L O x LIL Dobata x
probability jitter at T	so) is constrained by the error de P2, 3 and 4 are expected, cause	ed by high probat	bility baseline wander,			clause, 0.08 or 0.10.	ance (00.0.9.4) a	
	0.4 UI have been considered. T		e between TP2 and	Proposed	Response	Response Status W		
TP3 is expected to be lower than for higher speed PMDs. Proposed Response Response Status W				PROP	OSED ACCEP	T IN PRINCIPLE.		
PROPOSED ACCE	,			Accep	t the text with (0.08		
C/ 60 SC 60.7	P232	L 20	# 518	C/ 60	SC 60.8	P 232	L 31	# 888
Dawe, Piers	Agilent	220	<i>"</i> 310	Tom Murp	hy	Infineon		
Comment Type E	Comment Status D			Comment	Туре Т	Comment Status D		DUP 871
ps should be					ajority of BiDi o measurement	devices use a pigtail constructio	on. Hence, a pat	ch cord is not needed
SuggestedRemedy				Suggested	Remedy			
ns (twice)						ents shall be made through a s	hort patch cable	e or pigtail, between 0.5
Proposed Response	Response Status W				m in length			
PROPOSED ACCE	P1.			Proposed	,	Response Status W		
C/ 60 SC 60.7	P 232	L 20	# 519					
Dawe, Piers	Agilent			Same	issue. See res	ponse to 871		
Comment Type E	Comment Status D			C/ 60	SC 60.8.1.	-	L 44	# 859
Not Compliance Po	Int			Thatcher,	Jonathan	World Wide F	ackets	
SuggestedRemedy "Reference point" (a	as on p227) or "Measurement po	bint"		Comment The te	<i>Type</i> T st pattern is re	Comment Status D		
Proposed Response	Response Status W			Suggested	•			
PROPOSED ACCE	•			••	-	peated" after "frames"		
Change to "Referer	ice point"			Proposed	Response	Response Status W		
				Agree	, but prefer to a	add the suggested text before "	frames":	
					t pattern for bas	se line wander is composed of	a sequence of th	nree continously

			1 002.5411	Drait 1.0 Comments
C/ 60 SC 60.8.1.1 Dawe, Piers	P 232 Agilent	L 44	# 523	C/ 60 SC 60.8.10 P 239 L 44 # 537 Dawe, Piers Agilent
Comment Type E It makes it easier to writ requirement. There's or	Comment Status D the PICS if there is no more the on line 41.	nan one "sha	I" in any statement of	Comment Type T Comment Status D Test signal for 100BASE-X will have some deliberate BLW and jitter.
SuggestedRemedy Each frame has				SuggestedRemedy " and RIN (but see below). The" On p240 line 4, add "This causes some jitter in the tes signal, which is acceptable."
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 60 SC 60.8.1.1 Dawe, Piers	P 233 Agilent	L1	# 522	The latter sentence is OK. Consider rewording the suggested text "(but see below)" since this expression is a bit vague
Comment Type E Too Many Capitals	Comment Status D			C/ 60 SC 60.8.11 P 240 L 7 # 289 Radcliffe, Jerry Hatteras Networks
SuggestedRemedy interframe gap Proposed Response	Response Status W			Comment Type T Comment Status D This is the section of hte test methodology for stressed receiver sensitivity. Other comment were made to remove this requirement from the receivers. If this is accepted the test sectio
PROPOSED ACCEPT.				needs to be removed.
C/ 60 SC 60.8.1.1 Dawe, Piers	P 233 Agilent	L1	# 521	Remove Clause 60.8.11 if it was agreed to eleminate the requirement for this test.
Comment Type E Spell out an acronym wl	<i>Comment Status</i> D hich is new to the PMD clauses			Proposed Response Response Status W PROPOSED REJECT.
SuggestedRemedy after the frame check	sequence (FCS) has			For the sake of other clauses we should keep the text for now in one place. A decision to move the text could be made at a later stage.
Proposed Response	Response Status W			

PROPOSED ACCEPT.

		P802.3ah D	raft 1.0 Comments
C/ 60 SC 60.8.11 P 240 Dawe, Piers Agilent	L 9	# 539	C/ 60 SC 60.8.11.1 P 240 L 33 # 274 Jonsson, Ulf Ericsson AB
Comment Type E Comment Status D This very long subclause needs a sentence of introduct	ion.		Comment Type T Comment Status D Remove text that has to do with MMF.
SuggestedRemedy New first sentence:			SuggestedRemedy Remove the following text: "and the transvertal filter called out to emulate multimode fiber"
The stressed receiver conformance test is intended to s frequency response or timing characteristics which coul a distorted but compliant signal at TP3. Modal (MMF) of cause distortion.	ld cause erro	rs when combined with	Proposed Response Response Status W PROPOSED REJECT.
Proposed Response Response Status W			(unless 59 abandons MMF). This material is used by 59. Note other similar comments.
PROPOSED ACCEPT.			C/ 60 SC 60.8.11.1 P 240 L 49 # 275 Jonsson, Ulf Ericsson AB
An introduction is appropriate.			Comment Type T Comment Status D
Note that some comments have requested a removal o which of course would mean that the suggested introdu			Reference test pattern defined in Clause 60.8.1
Ø SC 60.8.11.1 P 240 pinsson, Ulf Ericsson AB	L 24	# 273	SuggestedRemedy Replace the text: "Actual patterns for testing the receiver are specified in the appropriate clause."
Comment Type E Comment Status D Make Clause 60 self-contained. Better to copy figure to cross-reference to Clause 52. D uggestedRemedy Copy Figure 52-10 to Clause 60.	Clause 60 ra	ather than having a	with: "The pattern for testing the receiver is specified in Clause 60.8.1." <i>Proposed Response Response Status</i> W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			'in the appropriate clause, e.g. 60.8.1.'
And refer to the copy, of course. See comment to p236	3 line 53.		C/ 60 SC 60.8.11.1 P 241 L 15 # 276 Jonsson, Ulf Ericsson AB
C/ 60 SC 60.8.11.1 P 240 Dawe, Piers Agilent	L 27	# 540	Comment Type E Comment Status D This comment is valid for Line 15 and Line 17
Comment Type E Comment Status D 60.y.y			Make Clause 60 self-contained. Better to copy figure to Clause 60 rather than having a cross-reference to Clause 52.
SuggestedRemedy			SuggestedRemedy Copy Figure 52-10 to Clause 60.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			Proposed Response Response Status W PROPOSED ACCEPT.
Check the reference			

C/ 60 Dawe, Piers	SC 60.8.11.2	P 241 Agilent	L 39	# 554	<i>Cl</i> 60 Dawe, Pier	SC 60.8.11.2	P 241 Agilent	L 43	# 557
Comment T	ype E	Comment Status D			Comment	Туре т	Comment Status D		
		be repetitive yet not short (FI	DDI BLW patter	n is an example, though	Typos	and capitalisation	I		
<i>uggestedR</i> Change	Remedy "short" to "repet				transm	ion ratio	,		
roposed R PROPO	esponse ISED ACCEPT II	Response Status W N PRINCIPLE.			Proposed I	Response	Response Status W		
/ 60 awe, Piers	SC 60.8.11.2	P 241 Agilent	L 40	# 555	C/ 60	OSED ACCEPT. SC 60.8.11.2	P 241	L 44	# 278
omment T	ype E	Comment Status D			Jonsson, L	llf	Ericsson AB		
60.n.m. ⁻ uggestedR	1				Comment Two .s	51	Comment Status D		
60.8.11.	.1				Suggested Remov				
roposed R PROPO	esponse SED ACCEPT.	Response Status W			Proposed PROP	Response OSED ACCEPT.	Response Status W		
/ 60 onsson, Ulf	SC 60.8.11.2	P 241 Ericsson AB	L 40	# 277	C/ 60	SC 60.8.11.2	P 241	L 47	# 558
omment Ty Make cr	ype E ross reference to	Comment Status D 60.8.11.1			Dawe, Pier Comment	Туре Е	Agilent Comment Status D		
uggestedR 60.m.n. ²	Remedy 1 should be 60.8	.11.1			Clarific Suggested				
roposed R		Response Status W			Extend differe	I sentence ", altho nt pattern; AN and	ough for the purposes of this o d OMA are not likely to be equ	clause, OMA is ual."	to be measured with
PROPO	SED ACCEPT.	Other comment(s) agree.			Proposed I	•	Response Status W		
' 60 awe, Piers	SC 60.8.11.2	P 241 Agilent	L 41	# 556	PROP	OSED ACCEPT.			
		Comment Status D ttern shorter than PRBS10 is	not recommen	ded." apply to short-					
uggestedR ?									
roposed R PROPO	esponse ISED ACCEPT II	Response Status W N PRINCIPLE.							
		discuss this issue.							

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

/ 60 SC 60.8.11.2	P 241 Ericsson AB	L 47	# 279	C/ 60 SC 60.8.11.2 Dawe, Piers	P 242 Agilent	L14	# 563
omment Type E Change cross-reference	Comment Status D 52.9.5 to 60.8.5			Comment Type E Figure 60-n	Comment Status D		
uggestedRemedy Change cross-reference	52.9.5 to 60.8.5			SuggestedRemedy 60-4			
roposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			Proposed Response PROPOSED ACCEPT.	Response Status W		
measuring OMA in 52.9. using a square wave pat measure A/sub/N/sub/ is eleven consecutive ones zeroes is convenient (the frequency test pattern""	DMA are not identical. Chang 5 using a square wave pattern tern.'. At the end of 60.8.5, a to be measured with a squar followed by an equal run of z e /H/ code-group in 24, or K28 of 36A.2). The OMA of 52 is a hange 'is as given for OMA in	h.' to 'measured dd 'Similarly, th e wave pattern teros. Five one 8.7 in 1000BAS A/sub/N/sub/, a	d according to 60.8.5 e optical power consisting of four to es followed by five E-X which is the ""Low- nd OMA here may	Cl 60 SC 60.8.11.2 Jonsson, Ulf Comment Type E Make cross-reference SuggestedRemedy Figure 60-n should be F	P 242 Ericsson AB Comment Status D	L14	# <u>282</u>
/ 60 SC 60.8.11.2 awe, Piers	P 241 Agilent	L 48	# 562	Proposed Response PROPOSED ACCEPT.	Response Status W		
omment Type E Bullet 5 is far too long	Comment Status D			C/ 60 SC 60.8.11.2 Dawe, Piers	P 242 Agilent	L 7	# 561
uggestedRemedy Wordsmithing suggestion	ns welcome.			Comment Type E Wrong equation label	Comment Status D		
PROPOSED ACCEPT IN				•	label equation in clause 60 se ation (52 -1)" with "the equati		
Clause editor to propose	P242 Ericsson AB	L10	# 280	Proposed Response PROPOSED ACCEPT	Response Status W		
omment Type E	Comment Status D			Prefer option 2			
Change equation numbe	r			C/ 60 SC 60.8.11.2 Jonsson, Ulf	P 242 Ericsson AB	L 7	# 281
Change (52-1) to (60-2)				Comment Type E	Comment Status D		
roposed Response	Response Status W			Change equation refere	nce		
PROPOSED ACCEPT IN	N PRINCIPLE. See commen	t to line 7.		SuggestedRemedy Change (52-1) to (60-2)			
				Proposed Response PROPOSED ACCEPT	Response Status W N PRINCIPLE.		
				Easier to delete number	and say 'the equation:'. Ano	ther comment r	efers.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 146 of 190

C/ 60 SC 60.8.11.2

C/ 60 SC 60.8. Thatcher, Jonathan	11.2 <i>P</i> 243 World Wide Pa	L10 ackets	# 862	C/ 60 SC 60.8.4 Dawe, Piers	P 233 Agilent	L 36	# 525
Comment Type T Text cut off.	Comment Status D se should be referenced			Comment Type T "The extinction ratio reflections." First, I r suggest the idea. Se	Comment Status D is measured under fully modulat never considered any partly mod econd, for DFB lasers the reflect ng uncertainty to the measurem sers.	lulated conditior ions are a bad i	n, we shouldn't even dea for extinction ratio
	EPT IN PRINCIPLE.	ned, meaning t	nat we should try to	Proposed Response PROPOSED ACCEF	Response Status W		
reference outside l	EFM clauses as little as possible. nodified according to the Editor's n	-		Cl 60 SC 60.8.5 Thatcher, Jonathan	P 233 World Wide Pr	L 48 ackets	# 858
Note, if we decide necessary.	to remove the stressed receiver sp	ec no changes	are of course		Comment Status D e BT filter specification here?		
60 SC 60.8. onsson, Ulf <i>Comment Type</i> E Figure 60-n is Figu	Ericsson AB Comment Status D	L 3	# 283	Proposed Response PROPOSED REJEC	d in C38; 1/100th the value used <i>Response Status</i> W T. t procedure. BW are specified in		JSe
Make cross-referen Proposed Response PROPOSED ACCI	Response Status W			Cl 60 SC 60.8.5 Dawe, Piers Comment Type E	P 233 Agilent Comment Status D	L 53	# 526
We mean that they out. <i>uggestedRemedy</i> "The wavelength a " Further words	Agilent <i>Comment Status</i> D nd spectral width (RMS) shall be r should be assured to meet the m and spectral width (RMS) shall be a mithing welcome!	easurements, v	vere they to be carried	proliferate it. SuggestedRemedy	s text as applicable as possible described above" to simply "idle <i>Response Status</i> W PT.		e don't have to
Proposed Response PROPOSED ACCI	Response Status W						

C/ 60 SC 60.8.5 Dawe, Piers	P 234 Agilent	L17	# 528	C/ 60 SC 60.8.5 Jonsson, Ulf	P 234 Ericsson AB	L 4	# 247
Comment Type E Which fig. 60-y?	Comment Status D			Comment Type E Typo	Comment Status D		
SuggestedRemedy				SuggestedRemedy "ower" shall be "power"			
Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE			Proposed Response ROPOSED ACCEPT.	Response Status W		
Actual reference to be a	dded. 60-4			C/ 60 SC 60.8.6	P234	L19	# 266
C/ 60 SC 60.8.5 Jonsson, Ulf Comment Type E	P 234 Ericsson AB Comment Status D	L 2	# 246	Jonsson, Ulf <i>Comment Type</i> T Add information on how to	Ericsson AB Comment Status D calculate Receive OMA bas	ed on Rx sens	itivity and ER
Missing space. S <i>uggestedRemedy</i> Add space after "1"				SuggestedRemedy Add the following formula: OMA ~ 2*Rx_sensitivity*((
Proposed Response PROPOSED ACCEPT. Sharp eyes!	Response Status W			PROPOSED ACCEPT IN Last in this subclause, add	Response Status W PRINCIPLE. Good idea. V d 'Receiver sensitivity, which in power terms according to	is an optical p	ower, can be
C/ 60 SC 60.8.5 Dawe, Piers	P 234 Agilent	L 3	# 527	C/ 60 SC 60.8.6 Jonsson, Ulf	P234 Ericsson AB	L 29	# 249
Comment Type E The similarity (but not co	Comment Status D ongruence) to clause 52 OMA	could cause c	onfusion.	Comment Type E All numbers in the equatio	Comment Status D ns should be in subscript		
SuggestedRemedy Change "interval, 1 UI" t	to "interval, here 1 UI" on lines	3 and 5		SuggestedRemedy	equations to be in subscrip	ł	
Proposed Response PROPOSED ACCEPT.	Response Status W			5	Response Status W		
C/ 60 SC 60.8.5	P 234 Ericsson AB	L 4	# 248	Also the letters in the equa are. Put them all in italics.	ations are in italics, the numb	pers are not, ar	nd in the text, neither
Comment Type E Missing space	Comment Status D						
SuggestedRemedy Add space after "20%	n						
Proposed Response PROPOSED ACCEPT.	Response Status W						

C/ 60 SC 60.8.6 Dawe, Piers	P 234 Agilent	L 29	# 529	C/ 60 SC 60.8.6 Jonsson, Ulf	P 234 Ericsson AB	L 45	# 253
Comment Type E Typo!	Comment Status D			Comment Type T Is the following sentend	Comment Status D ce applicable to the Clause 100	M PMDs?	
SuggestedRemedy OMA = P1 - P0 not vice	e versa!				e.g. 10GBASE, different patter MA on the one hand and extinc		
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy Remove the sentence			
C/ 60 SC 60.8.6 Jonsson, Ulf	P 234 Ericsson AB	L 3 1	# 252	Proposed Response PROPOSED REJECT.	Response Status W		
Comment Type E This comment is valid f	Comment Status D or Line 31 and Line 40.				formative, and as there is no e ise 52 who ask themselves 'wh to seek answers.		
Change mW to Watts. SuggestedRemedy Change mW to Watts.				C/ 60 SC 60.8.6 Jonsson, Ulf	P234 Ericsson AB	L 46	# 251
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type E The numbers in P0 and SuggestedRemedy	Comment Status D P1 should be in subscript.		
C/ 60 SC 60.8.6	P234 Ericsson AB	L 44	# 250	,	P0 and P1 to be in subscript. <i>Response Status</i> W		
Comment Type E	Comment Status D			PROPOSED ACCEPT			
SuggestedRemedy	I P1 should be in subscript.			C/ 60 SC 60.8.7 Jonsson, Ulf	P235 Ericsson AB	L 5	# 254
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type T We don't need to speci TDP measurement.	Comment Status D fy RIN for 100M. A RIN test is	not necessary :	since it's covered by th
				SuggestedRemedy Remove Clause 60.8.7			
				Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.		
				appear somewhere in I informative in 58 and 5	er metric and a better measurer EFM, even if we delete RIN from 9. If we keep an informative R	m this clause 6 IN12OMA in 6	0 and make it 0, keep this subclause

and let 58, 59 refer to it. If we delete RIN from clause 60 but keep it in 58 and 59, even if informative, consider getting one of those clauses to host it and the other to refer across.

Note other comments about need for RIN spec at 100Mb/s.

C/ 60 SC 60.8.7.1 P 235 Jonsson, Ulf Ericsson AB	L14	# 255	C/ 60 SC 60.8.7.3 P236 L21 # 258 Jonsson, Ulf Ericsson AB
Comment Type E Comment Status D Add figure			Comment Type T Comment Status D Sentence only valid for MMF components and thus is not applicable to the Clause 60 PMI as they only specify SMF.
SuggestedRemedy Add figure similar to Clause 52 showing the test arrange	ement.		SuggestedRemedy Remove sentence.
Proposed Response Response Status W PROPOSED ACCEPT.			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. It depends if 59 will refer to this.
C/ 60 SC 60.8.7.2 P 236 Dawe, Piers Agilent	L 8	# 560	C/ 60 SC 60.8.7.3 P236 L8 # 256 Jonsson, Ulf Ericsson AB
Comment Type E Comment Status D Wrong equation label			Comment Type E Comment Status D Incorrect equation reference.
SuggestedRemedy Option 1 Refer to and label equation in clause 60 serie Option 2 Replace "Equation (52 -1)" with "the equation			SuggestedRemedy Change "Equation (52-1)" to "Equation (60-1)"
Proposed Response Response Status W			Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.			PROPOSED ACCEPT IN PRINCIPLE.
			PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains more
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236	L11	# 257	PROPOSED ACCEPT IN PRINCIPLE.
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 lonsson, Ulf Ericsson AB		# <mark>257</mark>	PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains more than one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether.
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy		# <u>257</u>	PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains morthan one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1)		# 257	PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains morthan one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P236 L 34 # 260 Jonsson, Ulf Ericsson AB
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. Cl 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1)	ence it	# <u>257</u>	PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains morthan one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in the
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment(C/ 60 SC 60.8.7.3 P236	ence it	# <u>257</u> # <u>259</u>	PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains morthan one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P 236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in thrange of 25 to 50 kHz.
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 Ionsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment(status) C/ 60 SC 60.8.7.3 P236 Ionsson, Ulf Ericsson AB	ence it (s) for line 8.		PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains morthan one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P 236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in the range of 25 to 50 kHz. There are two instances in the spec where we specify the jitter corner frequency: 1. Clause 60.8.9 (transmitted eye) - here it is used to insure that the a TRx does not pass jitter that have corner BW less than x kHz (corner mask is x kHz).
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 onsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment(status) C/ 60 SC 60.8.7.3 P236 onsson, Ulf Ericsson AB Comment Type E Comment Status Remove space Comment Status D	ence it (s) for line 8.		PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains more than one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P 236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in the range of 25 to 50 kHz. There are two instances in the spec where we specify the jitter corner frequency: 1. Clause 60.8.9 (transmitted eye) - here it is used to insure that the a TRx does not pass jitter that have corner BW less than x kHz (corner mask is x kHz). 2. Clause 60.7 (jitter budget) - Here we spec a corner freq greater than x kHz. With the above reasoning the 100M ad hoc has concluded that we should go for the lower value of 20 kHz. SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. C/ 60 SC 60.8.7.3 P236 Ionsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment(status) C/ 60 SC 60.8.7.3 P236 Ionsson, Ulf Ericsson AB Comment Type E Comment Status Remove space E Comment Status D	ence it (s) for line 8.		PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains more than one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin." Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P 236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in the range of 25 to 50 kHz. Nere are two instances in the spec where we specify the jitter corner frequency: 1. Clause 60.8.9 (transmitted eye) - here it is used to insure that the a TRx does not pass jitter that have corner BW less than x kHz (corner mask is x kHz). 2. Clause 60.7 (jitter budget) - Here we spec a corner freq greater than x kHz. With the above reasoning the 100M ad hoc has concluded that we should go for the lower value of 20 kHz. Yet that have should go for the lower value of 20 kHz.
PROPOSED ACCEPT IN PRINCIPLE. Option 2 is probably best. Cl 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Add equation number in order to be able to cross-refere SuggestedRemedy Add equation number (60-1) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment(Cl 60 SC 60.8.7.3 P236 Jonsson, Ulf Ericsson AB Comment Type E Comment Status D Remove space SuggestedRemedy	ence it (s) for line 8.		PROPOSED ACCEPT IN PRINCIPLE. But it's not the first equation in 60. Quoting the style guide, ""If the standard contains more than one equation, then equations of key importance should be numbered consecutively in parentheses at the right margin."" Consider deleting the reference number altogether. Note other similar comment(s). C/ 60 SC 60.8.8 P 236 L 34 # 260 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D We need to cover existing components which usually specifies a high-frequency jitter in the range of 25 to 50 kHz. There are two instances in the spec where we specify the jitter corner frequency: 1. Clause 60.8.9 (transmitted eye) - here it is used to insure that the a TRx does not pass jitter that have corner BW less than x kHz (corner mask is x kHz). 2. Clause 60.7 (jitter budget) - Here we spec a corner freq greater than x kHz. With the above reasoning the 100M ad hoc has concluded that we should go for the lower value of 20 kHz. SuggestedRemedy

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 150 of 190 *Cl* **60** SC **60.8.8**

C/ 60 SC 60.8.9 P236	L 5 1	# 860	C/ 60	SC 6	60.8.9	P 236	L 53	# 530
Thatcher, Jonathan World Wide	Packets		Dawe, Pier	ſS		Agilent		
Comment Type T Comment Status D			Comment	Туре	Е	Comment Status D		
It would be better to put this subsection into clause exists text referring to MMF.	e 59. Then it woul	d be clear why there			empts to st parag	improve readability. The raph.	suggested remedy	is a rearrangement of
SuggestedRemedy			Suggested	IRemedy	/			
Move to C59. If not, add notes that MMF is not ap reference it.	blicable to C60. B	etter to just move it and	60.8.9	Transm	itter and	dispersion penalty (TDP)	measurement	
Proposed Response Response Status W						spersion penalty (TDP) me		
PROPOSED ACCEPT IN PRINCIPLE.						natic effects for a transmit ents with modal (not chror		
Agreed that text related to MMF makes no sense i			be use below)	ed with m . For 10	nultimod 00BASE	e fiber. The procedure tes LX and 100BASE-BX, a s uded in the reference cha	sts for pattern depen standardised elemen	ndent effects (but see
The PMD STF needs to discuss what to do about	this.		T			- ¹		
C/ 60 SC 60.8.9 P236	L 53	# 531				sion penalty may be meas rence transmitter, the tran		
Dawe, Piers Agilent			reflecti	ion, an c	ptical at	tenuator, a test fiber, and	a reference receive	r system containing a
Comment Type E Comment Status D						t end (optical to electrical ropriate, and a bit-error rat		
Spare text						de with the test patterns s		
SuggestedRemedy			Proposed I	Respons	se	Response Status W		
The procedure tests for pattern dependent effects 100BASE-BX, a standardised element of pattern of the reference channel.						IN PRINCIPLE.		
Proposed Response Response Status W PROPOSED REJECT.			Consid	der rewo	rding the	e suggested text "(but see	below)" since this e	expression is a bit vagu
			CI 60	SC 6	60.8.9	P 237	L 2932	# 262
C/ 60 SC 60.8.9 P236	L 53	# 261	Jonsson, U	Jlf		Ericsson A	Ъ	
onsson, Ulf Ericsson AE	5		Comment	Туре	т	Comment Status D		
Comment Type E Comment Status D			Remov	ve text th	nat has t	o do with MMF.		
Make Clause 60 self-contained. Better to copy figure cross-reference to Clause 52.	ire to Clause 60 r	ather than having a	Suggested	-				
SuggestedRemedy					followin	g text: receiver system containin	a a reference receiv	ver front end (optical to
Copy Figure 52-12 to Clause 60.			electric	cal conv	erter) an	d a bit-error rate tester. Al	BER and sensitivi	ty measurements are
Proposed Response Response Status W						erns specified for the PMI s with chromatic effects fo		
PROPOSED ACCEPT IN PRINCIPLE. In the cop			fiber."	niter nith	annen			asea with single mou
'reference receiver front end' and indicate that the	right hand group	of four boxes are the	Proposed I	Respons	se	Response Status W		
'reference receiver subsystem'.			•	•		Proposed reject (unless &	59 abandons MMF).	. This material is used

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C/ 60 SC 60.8.9 P 237 L 30 # 264 Jonsson, Ulf Ericsson AB	C/ 60 SC 60.8.9.1 P 237 L 45 # 532 Dawe, Piers Agilent
Comment Type E Comment Status D The test pattern is defined in 60.8.1. Make the text clearer by referencing this test pattern.	Comment Type T Comment Status D RIN is more of an issue than I thought when combined with high probability baseline wan
SuggestedRemedy Make a reference to 60.8.1. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 'e.g. in 60.8.1.'	SuggestedRemedy Tighten and clarify recommendation to "RIN12OMA should be120 dB/Hz for 100 125 for 1000" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 60 SC 60.8.9 P 238 L # 694 Diab, Wael William Cisco Systems E <t< td=""><td>The PMD STF needs to discuss this issue.</td></t<>	The PMD STF needs to discuss this issue.
Comment Type TR Comment Status D TDP is the appropriate method for evaluating PMDs. Nonetheless, given the speed of these PMDs and the short-term desire to implement solutions (as expressed in the original proposal presentations), an informative that relates traditional measurement techniques to TDP may help bridge the gap. SuggestedRemedy	C/ 60 SC 60.8.9.2 P 238 L 7 # 263 Jonsson, Ulf Ericsson AB Comment Type T Comment Status D Remove text that has to do with MMF. SuggestedRemedy
Specify an informative correlation between the TDP measurements and the eye mask and/or the jitter numbers Proposed Response Response Status W	Remove the sentence "When emulating a multimode fiber link" <i>Proposed Response Response Status</i> W PROPOSED REJECT. Proposed reject (unless 59 abandons MMF). This material is use
Specify an informative correlation between the TDP measurements and the eye mask and/or the jitter numbers Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Need more work	Remove the sentence "When emulating a multimode fiber link" Proposed Response Response Status W
Specify an informative correlation between the TDP measurements and the eye mask and/or the jitter numbers Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the sentence "When emulating a multimode fiber link" Proposed Response Response Status W PROPOSED REJECT. Proposed reject (unless 59 abandons MMF). This material is use by 59. Note other similar comments. C/ 60 SC 60.8.9.3 P 238 L 36 # 267

Page 152 of 190 C/ 60 SC 60.8.9.3

P802.3ah Draft 1.0 Comments SC 60.8.9.3 C/ 60 SC 60.8.9.3 P238 L36 # 533 C/ 60 P239 L6 # 861 World Wide Packets Dawe. Piers Agilent Thatcher, Jonathan Comment Type Е Comment Status D Comment Type TR Comment Status D confusing the BER should be less than, not greater than 10e-3. Also, in line 1, -3dBe ? SugaestedRemedv SuggestedRemedv Delete "(maximum)". Change per comment Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED REJECT. C/ 60 SC 60.8.9.3 P238 L40 # 534 BERT alignment is more like CDR alignment at higher error rates on jitter bathtub. A more Dawe, Piers Agilent detailed explanation can be provided to the commentor if requested. Comment Type E Comment Status D The -3dBe is addressed by comment 268 Should reflection be at TP2 or TP3 (before or after a minimum loss)? Argument for TP2: allows for a bad connector. Argument for TP3: bad connector is not compliant, this spec is C/ 60 P239 L912 SC 60.8.9.3 # 269 very conservative anyway. Jonsson, Ulf Ericsson AB SuggestedRemedy Comment Status D Comment Type т Discuss (in ad hoc?) Remove text that has to do with MMF. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Remove the paragraph starting with "For a transmitter to be used with multimode fiber..." The PMD STF needs to discuss this issue. Proposed Response Response Status W C/ 60 P239 L1 # 268 PROPOSED REJECT. Proposed reject (unless 59 abandons MMF). This material is used SC 60.8.9.3 by 59. Note other similar comments. Jonsson, Ulf Ericsson AB C/ 60 SC 60.8.9.4 P239 L 30 # 535 Comment Status D Comment Type E Dawe, Piers Agilent -3dBe should be -3 dBm Comment Type T Comment Status D SuggestedRemedy The timing offset is likely to be PMD dependent. Change -3dBe to -3 dBm SuggestedRemedy Proposed Response Response Status W Change "+- 0.05 UI" to "the amount specified in e.g. 60.7." Line 53, change to "at the PROPOSED REJECT. Electrical dB, not dB wrt 1 mW. We could use dBo instead but we specified timing offsets". Line 54, delete the sentence "Higher timing offsets may be should specify which. Which unit is conventional for receiver response? necessarv." C/ 60 SC 60.8.9.3 P239 L16 # 270 Proposed Response Response Status W Jonsson, Ulf Ericsson AB PROPOSED ACCEPT IN PRINCIPLE. Comment Type E Comment Status D Missing space SuggestedRemedy Change "20dB/decade" to "20 dB/decade" Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ 60 SC 60.8.9.4 Jonsson, Ulf	P 239 Ericsson AB	L 31	# 272	C/ 60 SO Jonsson, Ulf	C Table 60-1	P 226 Ericsson AB	L18	# 230
Comment Type E C Make Clause 60 self-contain cross-reference to Clause 52		to Clause 60 ra	ather than having a	Comment Type The nomina up.		ment Status D 00BASE-BX-ONU and	100BASE-BX-	OLT have been mixed
SuggestedRemedy Copy Figure 52-12 to Clause	e 60.			SuggestedRem Change No	-	r 100BASE-BX-OLT to	o 1550 nm.	
	sponse Status W			Change No	minal wavelength fo	r 100BASE-BX-ONU 1		
And refer to the copy, of cou	-	236 line 53.		Proposed Resp PROPOSEI	onse Resp D ACCEPT IN PRIN	onse Status W CIPLE.		
C/ 60 SC 60.8.9.4 Dawe, Piers	P 239 Agilent	L 40	# 538	whether a s	ignal is going FROM	really is concerned wi 1 or TO a 100BASE-B ell '100BASE-BX' unde	X-xyz. If we ha	
Here is the place to create a measure of TDP (although a				column, use	e the names of the d from' in front of the te	irections, and someth	ing like 'both wa	ays' for 100BASE-LX. he wavelengths around
consultancy service).				C/ 60 SC Jonsson, Ulf	C Table 60-10	P 232 Ericsson AB	L 20	# 244
60.8.9.5 Approximate measu In practice it may be necessa available?] Experimentally, t	ary to do without the cloo		. ,	<i>Comment Type</i> 'ps' should l	T Com be 'ns' in the table.	ment Status D		
to the CRU could be account timing offsets.				SuggestedRem Change 'ps'	<i>edy</i> ' to 'ns' in two places	in the table.		
A significant component of T by the receiver if it is not alre	ady present in the trans	mitted signal. H	ligher levels of pattern	Proposed Resp PROPOSEI	,	onse Status W comment(s) say the s	ame.	
dependent penalty can be es upper and lower mask region the committee. Oscilloscope	ns). The accuracy of this	s approach has	not been established by	CI 60 S0 Jonsson, Ulf	C Table 60-12	P 238 Ericsson AB	L 30	# 265
Proposed Response Re PROPOSED ACCEPT IN PF	sponse Status W RINCIPLE.			<i>Comment Type</i> Remove pa	T Com	<i>ment Status</i> D h MMF.		
Use the provided text with su	uitable modifications			SuggestedRem Remove the	edy e row "1310 nm ban	d for MMF"		
				Proposed Resp		onse Status W ed reject (unless 59 ab		

Jonsson, Uli	SC Table 60-14	P 246 Ericsson AB	L 5	# 285	C/ 60 SC Table 60-5 Radcliffe, Jerry
Comment T		nent Status D			Comment Type T
•	describe the fiber chara				The stressed receiver sense
SuggestedF	Remedy				125Mbaud.
Ask the	fiber experts how to des	cribe SMF for 1550 nr	n use.		SuggestedRemedy
Proposed R	esponse Respo	nse Status W			Remove the stressed rece
	SED ACCEPT IN PRING s and and insert an atten				Proposed Response F PROPOSED ACCEPT IN
C/ 60	SC Table 60-4	P 229	L17	# 231	Retain test procedure text
Jonsson, Uli	f	Ericsson AB			Removing the lines from the
Comment T		nent Status D			5
	't need to specify RIN for easurement.	100M. A RIN test is r	ot necessary	since it's covered by the	See comment 288.
SuggestedR					C/ 60 SC Table 60-5
00	emove the RIN_12_OMA	from the table or if p	eople find it he	loful make an	Jonsson, Ulf
	tive recommendation that				Comment Type E
Proposed R	esponse Respo	nse Status W			In footnote 'a', make a refe in Clause 60.8.6.
	SED ACCEPT IN PRING		proceed cautio	ously, do the latter.	
Note of	ner comments on same t	opic.			SuggestedRemedy
Note oth C/ 60	ner comments on same t SC Table 60-4	opic. P 229	proceed cautio	# 232	SuggestedRemedy
Note oth CI 60 Jonsson, Uli	ner comments on same t SC Table 60-4 f	opic. P 229 Ericsson AB			SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response
Note off Cl 60 Jonsson, Ult Comment T	ner comments on same t SC Table 60-4 f ype E Comr	opic. P229 Ericsson AB nent Status D	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response
Note off Cl 60 Jonsson, Ulf Comment T In the fo	SC Table 60-4 f ype E Comr potnote, make a referenc	opic. P229 Ericsson AB nent Status D	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6"
Note off Cl 60 Jonsson, Ulf Comment T In the fo Clause	SC Table 60-4 f ype E Comr potnote, make a referenc 60.8.6.	opic. P229 Ericsson AB nent Status D	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN
Note off Cl 60 Jonsson, Ulf Comment Ty In the fo Clause SuggestedF	SC Table 60-4 f f ype E Comr potnote, make a referenc 60.8.6. Remedy	opic. P 229 Ericsson AB nent Status D e to how OMA is being	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN C/ 60 SC Table 60-6 Jonsson, Ulf
Note off Cl 60 Jonsson, Ulf Comment T In the fo Clause SuggestedF Add the	SC Table 60-4 f ype E Comr potnote, make a referenc 60.8.6.	opic. P 229 Ericsson AB nent Status D e to how OMA is being	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN C/ 60 SC Table 60-6 Jonsson, Ulf Comment Type T
Note off CI 60 Jonsson, Ulf Comment Ty In the fo Clause SuggestedR Add the ", see	SC Table 60-4 f gype E Comr botnote, make a referenc 60.8.6. Remedy following text to the end Clause 60.8.6"	opic. P 229 Ericsson AB nent Status D e to how OMA is being	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN Cl 60 SC Table 60-6 Jonsson, Ulf Comment Type T TS-1000 has the traditional cost components a lower of
Note off Cl 60 Jonsson, Ulf Comment Ty In the fo Clause SuggestedR Add the ", see Proposed R	SC Table 60-4 f gype E Comr botnote, make a referenc 60.8.6. Remedy following text to the end Clause 60.8.6"	P 229 Ericsson AB <i>nent Status</i> D e to how OMA is being of the footnote: <i>nse Status</i> W	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN C/ 60 SC Table 60-6 Jonsson, Ulf Comment Type T TS-1000 has the traditional cost components a lower v of the 4B/5B code a lower
Note off Cl 60 Jonsson, Ulf Comment Ty In the fo Clause SuggestedF Add the ", see Proposed R PROPO	SC Table 60-4 f f ype E Comr potnote, make a reference 60.8.6. Remedy following text to the end Clause 60.8.6" response Response DSED ACCEPT IN PRINCE	P 229 Ericsson AB ment Status D e to how OMA is being of the footnote: nse Status W CIPLE.	L 25	# 232	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN I Cl 60 SC Table 60-6 Jonsson, Ulf Comment Type T TS-1000 has the traditional cost components a lower w of the 4B/5B code a lower SuggestedRemedy
Note oth Cl 60 Jonsson, Ult Comment Ty In the for Clause of Suggested R Add the ", see Proposed R PROPO (without approad	SC Table 60-4 f gype E Comr potnote, make a referenc 60.8.6. Remedy following text to the end Clause 60.8.6" response Respo	P 229 Ericsson AB ment Status D e to how OMA is being of the footnote: nse Status W CIPLE. , or similar, occurs fou ormation as a NOTE a	L 25 g calculated. T r times in thre at p228 line 49	# 232 his is explained in e pages. An alternative : 'In this and the next	SuggestedRemedy Add the following text to th ", see Clause 60.8.6" Proposed Response PROPOSED ACCEPT IN I C/ 60 SC Table 60-6 Jonsson, Ulf Comment Type T TS-1000 has the traditional cost components a lower v of the 4B/5B code a lower

launch power (min) or receive sensitivity [Or receiver sensitivity (max) or however we name

it]. The calculation is explained in 60.8.6.'

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	C Table 60-5	P 22) L47	#	287
Radcliffe, Jerry		Hattera	s Networks		
Comment Type	т	Comment Status	2		
The stresse 125Mbaud.	d receiver se	nsitivity is not approp	riate for receivers	operating ove	r SMF at a
SuggestedReme	ədy				
Remove the	stressed rec	eiver sensitivity test	from Table 60-5.		
Proposed Respo	onse	Response Status	N		
PROPOSE) ACCEPT IN	I PRINCIPLE.			
Retain test	procedure tex	t at this point. Make	the requirement o	ptional.	
Removing th	he lines from	the table is appropria	ate.		
See comme	ent 288.				
C/ 60 SC	C Table 60-5	P 22	9 L51	#	233
Jonsson, Ulf		Ericsso	n AB		
Comment Type	Е	Comment Status	C		
In footnote ' in Clause 60		ference to how OMA	is being calculate	d. This should	be explaine
SuggestedReme	ədy				
Add the follo ", see Cla		the end of the footno	te:		
		Response Status	N		
Proposed Respo	onse	Response Status			
• •		PRINCIPLE. See	similar comment.		
PROPOSEI		N PRINCIPLE. See		#	235
PROPOSEI	D ACCEPT IN	N PRINCIPLE. See) L 29	#	235
PROPOSEI	D ACCEPT IN	PRINCIPLE. See) L 29 n AB	#	235
PROPOSEL Cl 60 SC Jonsson, Ulf Comment Type TS-1000 ha cost compos	C Table 60-6 T s the tradition nents a lower	PRINCIPLE. See P230 Ericsso) L 29 n AB D 3.2 dB. However, resides, consideri	in order to allo	w true low-
PROPOSEL Cl 60 SC Jonsson, Ulf Comment Type TS-1000 ha cost compos	D ACCEPT IN C Table 60-6 T s the tradition nents a lower 3 code a lowe	I PRINCIPLE. See P23 Ericsso Comment Status I nal SONET value of 8 value is preferred. E) L 29 n AB D 3.2 dB. However, resides, consideri	in order to allo	w true low-
PROPOSEL Cl 60 SC Jonsson, Ulf Comment Type TS-1000 ha cost compor of the 4B/SE SuggestedReme	D ACCEPT IN C Table 60-6 T s the tradition nents a lower 3 code a lowe	P230 P230 Ericsso Comment Status Nal SONET value of 8 value is preferred. E r value is appropriate) L 29 n AB D 3.2 dB. However, resides, consideri	in order to allo	w true low-
PROPOSEL Cl 60 SC Jonsson, Ulf Comment Type TS-1000 ha cost compor of the 4B/SE SuggestedReme	T T S the tradition nents a lower 3 code a lowe edy catio (min) = 6	P230 P230 Ericsso Comment Status Nal SONET value of 8 value is preferred. E r value is appropriate) L 29 n AB D 3.2 dB. However, sesides, consideri a.	in order to allo	w true low-

PROPOSED ACCEPT IN PRINCIPLE. This comment has technical merit. The subject may need further study to understand the effect of the 4B/5B code and to bear in mind the desire for compatibility with TS-1000. Note another comment on same topic.

C/ 60	SC Table 60-6	P 230 Ericanon AB	L 40	# 240	C/ 60	SC Table 60-7	P 231	L18	# 237
Jonsson, Ulf		Ericsson AB			Jonsson,		Ericsson AB		
Comment Ty		nment Status D			Comment		ment Status D		
	I't need to specify RIN f easurement.	or 100M. A RIN test is	not necessary	since it's covered by the		tnote 'a', make a referenc luse 60.8.6.	e to how OMA is bei	ng calculated. Th	is should be explained
SuggestedR	Remedy				Suggeste	dRemedy			
	emove the RIN_12_ON tive recommendation the term of te					he following text to the endee Clause 60.8.6"	d of the footnote:		
Proposed R	Response Resp	oonse Status W			Proposed	Response Resp	onse Status W		
	SED ACCEPT IN PRIN proceed cautiously, do				PROF	POSED ACCEPT IN PRIN	CIPLE. See similar	r comment.	
C/ 60	SC Table 60-6	P230	L 46	# 236	C/ 60	SC Table 60-7	P 231	L 9	# 238
Jonsson, Ulf	f	Ericsson AB			Jonsson,		Ericsson AB		
Comment T	vpe E Con	nment Status D			Comment	51	ment Status D		-1
-	potnote, make a referer		ng calculated. T	his is explained in		ower budget of 16dB for 1	UUBASE-BX seems	unnecessarily hi	gn.
Clause			-	·	Suggeste				
SuggestedR	Remedy				Inves	tigate the possiblity to rela	ix the P_ave (min) a	nd Rx sensitivity	values.
	e following text to the en Clause 60.8.6"	d of the footnote:			,	Response Response Response	onse Status W	comments on the	same topic.
Proposed R	Response Resp	oonse Status W			01.00		Date	1.00	" 00050
PROPO	OSED ACCEPT IN PRI	NCIPLE. See similar of	comment.		<i>Cl</i> 60 Dawe, Pie	SC Table 60-9	P 215 Agilent	L 20	# 99050
C/ 60	SC Table 60-7	P 231	L15	# 288	Comment		ment Status R		D1.0 #293
Radcliffe, Je	erry	Hatteras Netwo	orks			ell as the minimum transm		duced. the sensit	
Comment T	ype T Con	nment Status D		DUP 287	from -	-30 dBm, for 10 km (part c	f the difference is be	ecause this stand	ard will likely define a
The stre 125Mba	essed receiver sensitivi aud.	ty is not appropriate for	r receivers opei	ating over SMF at a	This a	tivity with the stressful test allows more budget for the This is still a "mean powe	WDM components	(hidden from the	standard behind the
SuggestedR	Remedy				expre	ssed the minimum power	in OMA also, like 10	0BASE-LX. Bec	ause the link
Remove	e the stressed receiver	sensitivity requirement	s from Table 60)-7.		uation is expected to differ			
Proposed R	Response Resp	oonse Status W				tivity should differ for the t tivities differ.	WU TUUDASE-DA PIN	NDS. Here i sugg	jest making the
PROPO	SED ACCEPT IN PRI				Suggeste	dRemedv			
See con	mment 287					-25 dBm at 6 dB extinctio	n ratio = -24.2 dB OI	MA or 3.79 uW.	
					Proposed	Response Resp	onse Status U		
					, REJE				
					See c	comment 289			

P802.3ah D	raft 1.0	Comments
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C/ 60 SC Table 60-9 Jonsson, Ulf E	P 232 Fricsson AB	L 6	# 242	C/ 61 So Barrass, Hugh)	P 249 Cisco	L15	# 642
Comment Type T Comment St Consider relaxation of the power budge				<i>Comment Type</i> Spelling err	E or "aggragat	Comment Status D		
SuggestedRemedy 10 dB?				(also on line SuggestedRem	,			
Proposed Response Response Sta PROPOSED ACCEPT IN PRINCIPLE. too low.		see other commo	ents. 10 may be	Suggestearen Should be " Proposed Resp PROPOSEI	aggregation	" Response Status W		
	P 232 Fricsson AB	L8	# 243		C 61.0	P 249 Mindspeed	L16	# 429
Comment Type T Comment St Set operating distance for 100BASE-B) SuggestedRemedy Operating distance = 10000 m				Comment Type	E eviations, "A	Comment Status D		
Proposed Response Response Sta PROPOSED ACCEPT IN PRINCIPLE. 10000 m.) with the other. I	Jse 10 km not	Change "Ag Proposed Resp PROPOSEI	onse	o "Aggregation" Response Status W		
C/ 60 SC Table 60-9 Jonsson, Ulf E	P 232 iricsson AB	L 9	# 245	C/ 61 So Tzannes, Marco	c 61.1 s	Р 250 Aware	L 1	# 422
Comment Type T Comment St We should strive to specify a common of		EFM P2P SMF P	DUP 857 MDs.	Comment Type 2-PASS-TL operation w	TR and 2-BASE	Comment Status D E-TL address two separate m	arket segments	. 2-BASE-TL provides

I recommend to make a change to the objectives of the Task Force.

P802.3ah Draft 1	.0 Comments
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C/ 61 SC 61.1.4.1 Marris, Arthur	P 251 Cadence Desic	L 36	# 63	C/ 61 SC 61.1.4.4 Barrass, Hugh	I.1 P 252 Cisco	L18	# 643
Comment Type E Change the last sentend	Comment Status D Comment Status D ce of the second paragraph to r packet gap so that the net d	read "The MA	C-PHY rate matching	Comment Type E Needs to include refe SuggestedRemedy	Comment Status D prence to defining section for MA end of final paragraph:	C PHY rate ma	itching.
Proposed Response PROPOSED ACCEPT.	Response Status W			The definition of the I Proposed Response PROPOSED ACCEP	MAC PHY rate matching specific Response Status W T.	cation is presen	ted in subclause 61.2.4
C/ 61 SC 61.1.4.1 Marris, Arthur Comment Type E	P 251 Cadence Desig Comment Status D	L 42 In Foun	# 64	C/ 61 SC 61.1.4. Tom Mathey		L18	# 927
MAC_PHY should be M SuggestedRemedy Change to MAC-PHY Proposed Response	AC-PHY Response Status W			in half-duplex, then w	Comment Status D e to handle simultaneous transfe re may need to specify a minimu e. For example, legacy MACs w	im time from fal	ling edge of transmit to
PROPOSED ACCEPT.				SuggestedRemedy Specify, a number ec	ual to a minimum IPG or TBD is	s suggested for	now.
C/ 61 SC 61.1.4.1 Tom Mathey	P 251 Independent	L 47	# 926	Proposed Response PROPOSED REJEC	Response Status W		
Comment Type E Reword text for "collision	Comment Status D n" as "collision" has little mean	ning in full-dupl	ex.	This subclause is onl	y a summary, details such as th	is need to be in	61.2.1
	e gamma interface to avoida (terface to avoid simultaneous			Cl 61 SC 61.1.4. Marris, Arthur Comment Type E	Cadence Desi Comment Status D	-	# 66
Proposed Response PROPOSED ACCEPT.	Response Status W			Add "The definition o SuggestedRemedy As above.	f MAC-PHY rate matching is pre	esented in subcl	ause 61.2.1."
				Proposed Response PROPOSED ACCEP	Response Status W T.		

C/ 61 SC 61.1.4.1.1	P 252	L 5	# 65	C/ 61 SC 61.2 P L # 817
larris, Arthur	Cadence Des	ign Foun		O'Mahony, Barry Intel Corp.
comment Type E tx_en should be upper c	Comment Status D ase			Comment Type T Comment Status D Framing and encapsulation method using PTM TPS-TC does not meet constant overhead
uggestedRemedy				and robustness requirements.
Change "tx_en" to "TX_	EN"			SuggestedRemedy
roposed Response	Response Status W			Adopt new TPS-TC as described in accompanying presentation.
PROPOSED ACCEPT.				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
7 61 SC 61.1.4.2 arnea, Eyal	P 252 Metalink	L 41	# 316	Baseline proposal must be adopted as basis for next draft.
omment Type E Second sentence of the	Comment Status D first paragraph adds no rele	evant information	ı.	C/ 61 SC 61.2.1.2.1 P 253 L 34 # 699 Diab, Wael William Cisco Systems <
uggestedRemedy delete the sentence				Comment Type E Comment Status D The table refernce has no introduction
roposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.			SuggestedRemedy Please add a sentence introducing the table and describing its purpose
Change second sentend	ce to:			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	th 2BASE-TL/2PASS-TL and between the two port types.	d 10PASS-TS po	ort types can use	Change subclause to read
C/ 61 SC 61.1.5.6	P 253	L 34	# 698	MII signals are defined in Table 23.2.2.1.
iab, Wael William	Cisco System	IS		C/ 61 SC 61.2.1.2.2 P253 L40 # 644
omment Type E	Comment Status D			Barrass, Hugh Cisco
The subclause simply ha	as a pointer to another subc	lause with no oth	ner information.	Comment Type E Comment Status D
uggestedRemedy				EFM copper PHY management is defined using Clause 45 access.
Remove the pointer/sec	tion and/or add text to differe	entiate between	the 2 subclauses	SuggestedRemedy
roposed Response PROPOSED ACCEPT.	Response Status W			Change subclause to read:
				The management interface has pervasive connections to all functions. Operation of the management control lines MDC and MDIO is specified in Clauses 22 and 45, and requirements for managed objects inside the PCS and PMA are specified in Clause 30.
				Proposed Response Response Status W

PROPOSED ACCEPT.

SC 61.2.1.2.2

C/ 61 SC 61.2.1.3 P 254 L 1 # 68 Marris, Arthur Cadence Design Foun 68	C/ 61 SC 61.2.2.2 P 255 L 32 # 219 Squire, Matt Hatteras Networks
Comment Type T Comment Status D Most deployments with exposed MAC-PHY interfaces are likely to use SMII or RMII. This is because low cost ethernet switch silicon will be used to aggregate links from multiple subscribers in the CO. These chips use SMII and RMII which in order to save having a separate collision signal infer collision from TX_EN and CRS. A minor modification to the MAC-PHY rate matching state diagrams is needed to support RMII and SMII. SuggestedRemedy	Comment Type TR Comment Status D Current loop aggregation doesn't match accepted proposal of last meeting. SuggestedRemedy See PDF and FM file submitted to editor. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Will be presented at STF.
I have supplied separately a document with the new state diagrams. Proposed Response Response Status W PROPOSED ACCEPT.	C/ 61 SC 61.2.2.3 P 257 L 5 # 645 Barrass, Hugh Cisco
C/ 61 SC 61.2.1.3 P 254 L 1 # 67 Marris, Arthur Cadence Design Foun 67	Comment Type TR Comment Status D (approved) Comment on previous draft has not been actioned.
Comment Type T Comment Status D A comment was submitted and approved in New Orleans against draft 1.0 to insert state diagrams here. This comment has not been acted on. D	The maximum latency difference between aggregated loops must be specified. SuggestedRemedy Same remedy as previously accepted:
SuggestedRemedy Please insert the state diagrams as agreed during comment resolution in New Orleans. Proposed Response Response Status W PROPOSED ACCEPT.	The PMD control of aggregated links must ensure that the maximum latency difference between any two aggregated links correponds to no more than 64,000 bit times. This mus be achieved by adjusting the bit rate, error correction and interleaving functions in the PMA/PMD of each link. Note that the burst noise protection offered by the error correction and interleaving functions is directly proportional to the latency, therefore it is logical that multiple aggregated links in the same environment should be optimized to have the simila
C/ 61 SC 61.2.2 P 255 L 10 # 435 Cravens, George Mindspeed	latencies. Proposed Response Response Status W
Comment Type E Comment Status D	PROPOSED ACCEPT.
Figure 61-2 shows "PHY Loop Aggregation". This should be "PHY PMI Aggregation" to match the text.	C/ 61 SC 61.2.2.3.1 P 256 L 1 # 647 Barrass, Hugh Cisco
uggestedRemedy Revise Figure 61-2, changing the text "PHY Loop Aggregation" to "PHY PMI Aggregation".	Comment Type E Comment Status D
Proposed Response Response Status W PROPOSED ACCEPT.	 This section (which is modified by previous comment) does not belong in this subclause. SuggestedRemedy Move last paragraph of this subclause to subclause 61.2.2.3 PHY PMI aggregation receiv function. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 61	SC 61.2.2.3.1	P 256	L32	# 646
Barrass, Hu	gh	Cisco		

Comment Type T Comment Status D

Error detecting rules are not complete.

Entire section needs to be rewritten - note that this is independant of header and functional changes agreed at last meeting

SuggestedRemedy

Change subclause to the following:

61.2.2.3.1 Error-detecting rules

The receive TC function passes all frames to the PAF across the gamma interface. If the TC detects an error in the encapsulation, it asserts RxErr during the frame transmission on the gamma interface.

For each PMA (gamma interface), the per PMA buffering mechanism must discard the fragment if any of the following conditions occur:

RxError is asserted during the reception of the fragment across the gamma interface. The fragment is too small - less than minFragmentSize as defined TBD. The fragment is too large - more than maxFragmentSize as defined TBD. The fragment would cause the per PMA received buffer to overflow.

The PAF must then assert one of the per PMA error flags as appropriate:

 $\label{eq:tc_PAF_RxErrorReceived; TC_PAF_FragmentTooSmall; TC_PAF_FragmentTooLarge; TC_PAF_Overflow.$

Additionally the packet assembly function must detect the following errors:

If the nextFragmentSequenceNumber is less than the expectedFragmentSequenceNumber (or greater than expectedFragmentSequenceNumber + 2^11) then assert PAF_BadFragmentReceived.

If all active PMA buffers are non empty and nextFragmentSequenceNumber is greater than expectedFragmentSequenceNumber then assert PAF_LostFragment, set expectedFragmentSequenceNumber equal to nextFragmentSequenceNumber.

If any PMA buffer is non empty for 64k bit times (for that PMA/PMD) and no fragment is transferred then assert PAF_LostFragment, set expectedFragmentSequenceNumber equal to nextFragmentSequenceNumber.

Having detected one of the above errors, the packet assembly function must act as follows:

If the packet assembly function was mid-frame (i.e. waiting for an End of Packet), assert RxError signal on MII interface, abort frame transfer and flush PMA buffers until the next Start of Packet is received.

If the packet assembly function was between frames (i.e. waiting for a Start of Packet),

assert RxError signal on the MII interface, send 64 byte garbage frame with forced FCS error to MAC, flush PMA buffers until the next Start of Packet is received.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Need to be discussed at STF.

C/ 61	SC 61.2.2.3.1	P 256	L 50	# 431
Cravens,	George	Mindspeed		

Comment Type TR Comment Status D

At line 47, the clause states that (paraphrased): the PAF shall discard MAC frames with fragment errors. However, at line 50, the PAF is required to send a "garbage frame":

"If any PHY does not provide a non-errored fragment with the current MAC frame count then the PAF shall send 64 byte garbage frame to the MAC and discard all non-errored fragments with the current MAC Frame counter. In this case the PAF shall construct a 64 byte MAC frame with an FCS/CRC error and send this frame to the MAC-PHY Rate Matching function."

This is inconsistant with the previous two requirements (than only non-errored frames be passed up to the MAC layer.

SuggestedRemedy

Delete the requirement for generation of "garbage frames", and require that any time a frame is dropped due to errors, the FragmentError.indicate primitive (61.2.2.4.2, pg. 257, Line 26) will be used to allow the upper layer to count dropped frames.

	Proposed Response	Response Status	W
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PROPOSED REJECT.

PHY should not drop or discard frames.

 C/
 61
 SC
 61.2.2.3.1
 P 257
 L 5
 # 976

 Vladimir Oksman
 Broadcom

Comment Type T Comment Status D

There also should be specified how long should be the waiting time after which the receiver makes a decision that some fragments of the frame are lost. Otherwise, the system may get suspended.

SuggestedRemedy

Add a value or an editor note to define this parameters in the future.

Proposed Response Response Status W PROPOSED REJECT.

Comment 645 covers this.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ 61	SC 61.2.2.4.2	P 257	L 26	# 648
Barrass, ⊢	lugh	Cisco		

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

The error signal specified here is not relevant as there is no specified interface between the PAF and the MAC-PHY rate matching function.

However, a number of error indicators are needed by the management entity to maintain required counters.

SuggestedRemedy

Replace paragraph with the following:

TC_PAF_RxErrorReceived: (for each PMA, gamma interface) this primitive is asserted to indicate that a fragment has been received across the gamma interface with RxErr asserted. The errored fragment has been discarded.

TC_PAF_FragmentTooSmall: (for each PMA, gamma interface) this primitive is asserted to indicate that a fragment has been received across the gamma interface which was smaller than the minFragmentSize defined. The errored fragment has been discarded.

TC_PAF_FragmentTooLarge: (for each PMA, gamma interface) this primitive is asserted to indicate that a fragment has been received across the gamma interface which was larger than the maxFragmentSize defined. The errored fragment has been discarded.

TC_PAF_Overflow: (for each PMA, gamma interface) this primitive is asserted to indicate that a fragment has been received across the gamma interface which would have caused the receive buffer to overflow. The errored fragment has been discarded.

PAF_BadFragmentReceived: this primitive is asserted to indicate that a fragment has been received which does not fit into the sequence expected by the frame assembly function. The errored fragment has been discarded and the frame buffer flushed to the next valid frame start.

PAF_LostFragment: this primitive is asserted to indicate that a fragment expected according to sequence has not been received by the frame assembly function. The missing fragment has been skipped and the frame buffer flushed to the next valid frame start.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Need to get agreement at STF.

C/ 61	SC 61.2.2.4.3	P 257	L	# 928
Tom Math	hey	Independent		

Comment Type T Comment Status D

The use of multiple MII's is not well described. Also on p258, line 37. For multiple MIIs, we would need clause 45 registers and bits to describe how many,

provide ability bits, provide selection or enable/disable bits, provide a description of how a sub-layer would map to or choose a particular MII and MAC for both transmit and receive paths, how to map a given MII and its PCS to specific PMD's, etc.

SuggestedRemedy

Nuke.

Proposed Response Response Status W

PROPOSED REJECT.

This definition was accepted based on presentation. Clause 45 defines access and function of registers.

C/ 61	SC 61.2.2.6.2	P 259	L 40	#	432	
Cravens, G	eorge	Mindspeed				

Comment Type E Comment Status D

MACFrameLen parameter should refer to the maximum allowable frame length (from another section of the standard) rather than using a fixed number since the maximum frame length may change in the future (for example: there is talk of stacked VLAN tags in 802.1 and other places).

SuggestedRemedy

Change 1522 to the proper parameter (and clause reference) for maximum frame length.

Proposed Response Response Status W

PROPOSED REJECT.

Ethernet frames (as defined in Clause 3) are not longer than 1522 octets. Other implementations are out of scope.

P802.3ah Draft 1.0	Comments
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			F 002.3an L		115			
C/ 61 SC 61.2.3.1.1	1 P 264	L1	# 649	C/ 61 SC	61.2.3.1.1	I P 264	L 4	# 651
Barrass, Hugh	Cisco			Barrass, Hugh		Cisco		
Comment Type T	Comment Status D			Comment Type	TR	Comment Status D		
	is required by the PMA Aggre om the TC to the PMT to indic					4 has not been implemented. not been specified.	The signals req	uired for remote access
SuggestedRemedy				SuggestedReme	dy			
Add paragraph:				Add paragra	ph:			
section H.3.1.4. signal: PCS_link_state size: 1 bit direction: TC -> PTM er	ntity			document se for reading a tabulated: signal: write	ection H.3. and writing	equired for OAM flow (which v 1.4). These signals allow acce PHY loop aggregation registe ggregation_reg	ess from the TC	to the PTM entity (PCS)
	nal asserted when link is active ion in subclause 61.2.3.2.	e and framing ha	as synchronized	size: 1 bit direction: TC	: -> PTM e	ntitv		
Proposed Response	Response Status W IN PRINCIPLE. It can be in	nplementation d	ependent, need to			nal to write PMD_aggregation	_register. Active	e (min) 1 octet clock
discuss at STF.				signal: write	_remote_d	iscovery_reg		
C/ 61 SC 61.2.3.1.1	1 P 264	L 4	# 650	size: 1 bit direction: TC		otity		
Barrass, Hugh	Cisco					nal to write remote_discovery_	_register. Active	e (min) 1 octet clock
Comment Type T	Comment Status D			cycle.	-		-	
Gamma interface is not the definition acceptabl	t completely defined, some ad le.	ditional definitio	n is allowed to make	size: 1 bit		iscovery_reg		
SuggestedRemedy				direction: TC		ntity nal to clear remote_discovery_	register Activ	e (min) 1 octet clock
Add paragraphs:				cycle.	control sigi		Iegister. Active	
be transferred across th keep Tx_Enbl signal as gamma interface. If Tx_	_Enbl when it has sufficient sp he gamma interface at the net sserted until the last byte of the _Enbl remains asserted after t ed across the gamma interfac	rate of the MII in frame is transfine last byte of the	nterface. The TC must erred across the ne frame then another	size: 1 bit direction: TC	: -> PTM e	ggregation_reg ntity nal to read PMD_aggregation_	_register. Active	e (min) 1 octet clock
of the frame that it can gamma interface at the asserted until the last b	Enbl when it has an entire fra guarantee that the entire fram net rate of the MII interface. T oyte of the frame is transferred before the end of the frame th	e will be ready f The TC must kee across the gam	or transfer) across the ep Rx_Enbl signal ma interface. If	signal: read size: 1 bit direction: TC description: cycle.	: -> PTM e		register. Active	e (min) 1 octet clock
	Response Status W IN PRINCIPLE. Detail technic e gamma interface, so it looks				: -> PTM e data bus fo		ation registers.	Valid during octet clock

signal: remote_read_data_bus

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 163 of 190 C/ 61 SC 61.2.3.1.1

size: 48 bit direction: PTM entity -> TC description: data bus for the results of a read or atomic write function. Valid during octet	C/ 61 SC 61.2.3.1.2 P264 L22 # 653 Barrass, Hugh Cisco
clock cycle when Acknowledge_read_write or NAcknowledge_read_write is asserted.	Comment Type T Comment Status D
signal: Acknowledge_read_write	Receive error signal must be passed upwards across the alpha/beta interface.
size: 1 bit direction: PTM entity -> TC description: control signal responding (positively) to read or write. Active 1 octet clock cycle.	SuggestedRemedy Add paragraph:
signal: NAcknowledge_read_write size: 1 bit direction: PTM entity -> TC description: control signal responding (negatively) to read or write. Active 1 octet clock cycle. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Too much material, need to be reviewed by STF.	signal: PMA_FEC_uncorrected_error size: 1 bit direction: PMA -> TC description: Where appropriate, this signal indicates that the Forward Error Correction function (if present) in the PMA has detected, but not corrected an error or errors in an FE frame. Thi ssignal must be asserted for the duration of the FEC frame in which uncorrectable errors were detected.
C/ 61 SC 61.2.3.1.2 P 264 L 22 # 652 Barrass, Hugh Cisco	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This may not be needed especially if there is no re interface and more of internal interface between logical blocks.
Comment Type T Comment Status D Link synchronization state must be passed upwards across the alpha/beta interface.	C/ 61 SC 61.2.3.1.2 P 264 L 5 # 977 Vladimir Oksman Broadcom
SuggestedRemedy Add paragraph:	Comment Type E Comment Status D The alpha/beta interface is already defined in Clause 62.
The following signals must be passed across the alpha/beta interface to allow the TC to understand the current link status of the PMA.	SuggestedRemedy Either change the reference to the appropriate section in 62 or (even better) move the definition from 62 and place there a reference.
signal: PMA_receive_synchronized size: 1 bit direction: PMA -> TC description: signal indicates that the receive function is synchronized and valid data is being passed upwards across the alpha/beta interface.	Proposed Response Response Status W PROPOSED REJECT.
	This is the appropriate place to include reference for alpha/beta interface. Comments may
Proposed Response Response Status W	change Clause 62 to refer to this section.

PROPOSED ACCEPT IN PRINCIPLE.

C/ 61 SC Fig. 61 Cravens, George	3 P 259 Mindspeed	L 8	# 430	C/ 61A SC Vladimir Oksman	P 282 Broadcom	<i>L</i> 1	# 99013
	Comment Status D section (Starting with Subclaus			Comment Type T Irrelevant material	Comment Status D		D1.0 #44
At the interim meeting	during the last interim meeting g, it was decided to incorporate t 02.pdf into the next (this) draft.	he changes pr	oposed in		ne material of this clause is irr cussed and there was no agro		
SuggestedRemedy				Proposed Response	Response Status W		
Squire_Copper_1_09	egation section to reflect the cha 02.pdf. These changes include e removal of the requirement to	the use of a si	ngle sequence number	PROPOSED REJECT. Covered by 99012			
multiple subclauses.	e 43). While only Fig. 61-3 is ca	Illed out above	, the change involves	C/ 61A SC WEI. DONG	P 316 SBC Commu	L	# 641
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.			Comment Type TR	Comment Status D s Comment #413 on Draft 1.0		
Comment 219 alread	y covers this.						e etael e e e e ethilite i e
C/ 61 SC Fig. 61		L 22	# 433	beyond the scope of th	to define new PSDs and how is standard.	to show their sp	bectral compatibility is
Cravens, George	Mindspeed			SuggestedRemedy			
Comment Type E	Comment Status D			Delete the entire clause	e (from Page 316 to Page 32	0).	
Change LAF to PAF	o match text.			Proposed Response	Response Status W		
SuggestedRemedy				PROPOSED REJECT.			
C C	possibly numerous occurrances	in the clause)		Clause covered by 990	12		
Proposed Response	Response Status W			C/ 61A SC	P316	L1	# 311
PROPOSED ACCEP	1.			Barnea, Eval	A metalink	<i>L</i> I	# 311
CI61A SC	P 282	L	# 99012	Comment Type T	Comment Status D		
Vei, Dong	SBC Communi	cations,			ex was never discussed or pl	resented	
Comment Type TR	Comment Status D		D1.0 #413	SuggestedRemedy			
	x 61A into the draft was never a . It is inappropriate for the editor			Delete the annex			
	ft. This is a serious problem and			Proposed Response	Response Status W		
SuggestedRemedy				PROPOSED REJECT.	•		
Delete the entire clau	se.						
Proposed Response PROPOSED REJEC	Response Status W			Covered by 99012			

This is only an informative annex. All editors had been given the same level of flexibility.

C/ 61A SC Shohet, Zion	C 61A	P 316 Infineon	L1	# 306	C/ 61A Cook, Cha	SC Entire An	nnex P282 Qwest	2 L1	# 99015
This section	n is also not in ont, and which edy section onse	Comment Status D een discusses in the STF. cluded in simon_copper_' was adopted last meeting Response Status W		ich lists all sub-clauses in	- Anne T1.417 - Anne from, p spectru final st assure	61A shall be co x 61A is based u ' issue2) and ma x A of draft T1.4 provides a tool fo um compatibility. andard of a new	technology. Additiona of Annex A of draft T1.4	e following reasons bectrum managemen other regions; ection "Spectral com new technology devi to include the partia Ily, there is much inf	nt requirement (draft patibility guideline" is elopment to check portion of such tool in a
Covered by	99012					example in Anne		e final IEEE 802.3ał	n standard and potentially
C/ 61A SC	C annex 61A	P 282	L1	# 99014	Suggested	Remedy			
Zion Shohet Comment Type	Е	Infineon Comment Status D		D1.0 #209	by the				that it can be deliberated Id be included in drafts of
upon. The ir		oved. It has never been di hin this text is not a std ar noved.		resented, nor agreed	Proposed I PROP	Response OSED REJECT.	Response Status N	v	
SuggestedReme	edy				Covere	ed by 99012			
Proposed Respo		Response Status W			C/ 62 Barnea, Ey	SC /al	P 32 1 Metalin		# 313
PROPOSEI Covered by					Comment Add at	<i>Type</i> E obreviation to QA	Comment Status)	
					Suggested QAM -	-	plitude Modulation		
					Proposed I PROP	Response OSED ACCEPT	Response Status	v	
					<i>Cl</i> 62 Barnea, Ey	SC /al	P 321 Metalin	-	# 312
					Comment [®] No nee	51	Comment Status I 1E1.4/099 as T1.424 is		
					Suggested Delete	<i>Remedy</i> the line			
					Proposed I PROP	•	Response Status	v	

			P802.3ah I	Draft 1.0 Co	omments			
C/ 62 SC 1.2	P 322	L13	# 223	C/ 62	SC 4.5.2.2	P 344	L 9	# 224
Gustafsson, Jonas	Ericsson			Gustafsso	on, Jonas	Ericsson		
Comment Type E	Comment Status D			Commen	51	Comment Status D		
Is this correct? Should in	t not be 10Mbps?					ssion for NSC does not match t for 10PASS-TS.	the actual maxin	num number of
SuggestedRemedy Change from 2Mbps to	1014600				edRemedy			
0	·			Char	nge expression:	from NSC=2n+8 to NSC=2*exp	o(n+8)	
Proposed Response PROPOSED ACCEPT.	Response Status W			,	d Response POSED ACCEP	Response Status W		
C/ 62 SC 4.3 Gustafsson, Jonas	P 342 Ericsson	L 53	# 227	That	should be writte	n 2^(n+8)		
Comment Type E	Comment Status D			C/ 62	SC 4.6	P 318	L 46	# 99016
	3 standard is used in North A	merica, this is a	correct assumption.	Gustafsso	on, Jonas	Ericsson		
Hence, the statement is	s only valid in this case.			Commen	t Type T	Comment Status D		D1.0 #171
62.7.1.	h America 10PASS-TS must	be configured to	use Plan A defined in	PSD PSD The e	templates). Only - frequency same existing template	s spectrum compatibility accord y one of these are defined in th nples). es are collected from the sectio eflect the spectrum compatibilit	e subclause 62. n 61 of the ANS	4.6 (text and tables of I standard T1.417. This
Proposed Response PROPOSED ACCEPT I	Response Status W IN PRINCIPLE. es other bandplans to be use	d in the US			ct the market po edRemedy	otential of this standard.		
Note subclause reference						add text and sets of PSD temp nformation can be found in sec		
C/ 62 SC 4.5.2.2 Gustafsson, Jonas	P 344 Ericsson	L 19	# 225	•	d Response POSED ACCEP	Response Status W T IN PRINCIPLE. Review Anne	ex 62A, it should	d be covered there.
Comment Type E	Comment Status D			Not r	elevant to new v	version. Further proposed chan	ges must be exp	olicit.
Plan D can't be found in	any table currently defined.			C/ 62	SC 62.1	P 322	L 5	# 654
SuggestedRemedy				Barrass,	Hugh	Cisco		
Add definition of Plan D	(in table 62-12-10) or remov	e from line 19 in	subclause 62.4.5.2.2.	Commen	t Type E	Comment Status D		
Proposed Response	Response Status W			Secti	on number miss	ed out in second sentence of p	preamble	
PROPOSED ACCEPT I	IN PRINCIPLE.			Suggeste	edRemedy			
Delete reference to plar	n D in 62.4.5.2.2			Char	nge to:			
						2.4 and 62.5(DMT PMD function ons) are mutually exclusive.	nal specification	s and SCM PMD
				_				

Proposed Response Response Status W PROPOSED ACCEPT.

P802.3ah Draft	1.0 Comments
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57 62 SC	62.1.2	P 322	L13	# 978	C/ 62	SC 62.1.2	P 322	L17	# 657
ladimir Oksman	า	Broadcom			Barrass, H	lugh	Cisco		
omment Type	Е	Comment Status D			Comment	Туре Е	Comment Status D		
		tead 10. It is not clear that ful FM application actually operation			Third I Suggested	•	s does not match Task Force o	bjective	
uggestedReme Clarify the w	-	meaning "10Mb/s simultaneo	ously in both dire	ections".		ge line to:			
Proposed Respo PROPOSED		Response Status W			750m.		ating over non-loaded voice gr	ade twisted pair	cable at distances up
		d by comment 223) has alrea	dy been accepte	ed.	Proposed PROP	Response OSED ACCEPT	Response Status W		
7 62 SC arrass, Hugh	62.1.2	P 322 Cisco	L13	# 655	C/ 62 Shohet, Zi	SC 62.1.4	P 322 Infineon	L 25	# 308
comment Type	Е	Comment Status D			Comment		Comment Status D		
Data rate is i	incorrect (ty	po) from previous comment.			This s	51	ral one, while figure 62-1 is a [OMT PMA block	digram.
uggestedReme Change data	•	2Mbps to 10Mbps.			Suggested		gare.		
Proposed Respo PROPOSED		Response Status W			Proposed PROP	Response OSED REJECT	Response Status W		
C/ 62 SC Barrass, Hugh	62.1.2	P 322 Cisco	L15	# 656	_	specific remedy			
<i>Comment Type</i> List of object	E tives is not e	Comment Status D enumerated correctly.			<i>Cl 62 Barnea, Ey</i>	SC 62.1.4 yal	P 322 Metalink	L 26	# 314
uggestedReme	•	iouwth line aboutd be d)			Comment	51	Comment Status D 1 is wrong , since this is a DM ⁻	T DMA functions	diagram and not a
	,.	ourth line should be d)				al functional dia			a diagram and not a
roposed Respo PROPOSED		Response Status W			Suggested	Remedy			
FRUFUSED	ACCEPT.				Add a	new diagram fo	r the PMA functional model,		
					Proposed PROP	Response OSED REJECT	Response Status W		
					Need	a specific remed	dy.		

CI 62 SC 62.1.4.1 Vladimir Oksman	P 322 Broadcom	L 32	# 979	C/ 62 SC 62.1.4.1.2 P 322 L Barrass, Hugh Cisco	54 # 659
Comment Type E Terminology VTU-O, V	Comment Status D TU-R is not introduced and ma	ay be actually n	ot appropriate here.	Comment Type T Comment Status D Receive error signal must be passed upwards across the alg	pha/beta interface.
SuggestedRemedy Clarify definitions of the necessary.	e system parts and link them c	learly with VDS	L standards if	SuggestedRemedy Add line:	
Proposed Response PROPOSED REJECT.	Response Status W			 f) Receive Forward Error Correction detected but not correct FEC frame in which the error is detected (PMA_FEC_uncorr 	
Need specific remedy.				Additionally, the signal must be added to the table (Table 62	2.1)
C/ 62 SC 62.1.4.1.		L 45	# 660	Proposed Response Response Status W PROPOSED ACCEPT.	
Comment Type E Data signals are not sh	Cisco Comment Status D			Cl 62 SC 62.1.4.1.2 P 323 L Barnea, Eyal Metalink	# 315
SuggestedRemedy Delete sentence:				Comment Type E Comment Status D data stream signals are missing in Table 62-1	
	are described in Table 62–1.			SuggestedRemedy Add Tx_s and Rx_s signals to the table	
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	
Commnet 315 covers t	his			Cl 62 SC 62.1.4.1.2 P323 L	1 # <u>980</u>
C 62 SC 62.1.4.1.2		L 54	# 658	Vladimir Oksman Broadcom	
Barrass, Hugh	Cisco			Comment Type E Comment Status D	
Comment Type T	Comment Status D ate must be passed upwards	across the alph:	a/beta interface	Table 62-1 doesn't include the data flow signals. SuggestedRemedy	
SuggestedRemedy				Add data flow signals TX_s, Rx_s to the Table.	
Add line:				Proposed Response Response Status W PROPOSED ACCEPT.	
e) Receive PMA state	machine sychnronized (PMA_	receive_synchro	onized)		
Additionally, the signal	must be added to the table (T	able 62.1)			
Proposed Response	Response Status W				

PROPOSED ACCEPT IN PRINCIPLE. Needs more discussion at STF.

			P802.3ah	n Draft 1.0 Co	mments				
C/ 62 SC 62.1.4 Barrass, Hugh	4.1.2 P 323 Cisco	L17	# 661	C/ 62 Simon, So	SC 62.2.3	P3 Cisco	25 System	L is, Inc.	# 819
Comment Type E Table reference is v SuggestedRemedy	Comment Status D wrong.				EC mechanisn	Comment Status n defines two variables ues for these variables.	K and R		ext states that there are t one setting.
Change sentence t					ge the text to fi	x R at 16 (as given in th			
Proposed Response	on flow signals are described in T Response Status W	able 62–1.		on on		nanged to fix K at eithe value cannot be decide <i>Response Status</i>	d, fix it a		hould discuss and decid next draft.
PROPOSED ACCE		L 27	# 981	,		PT IN PRINCIPLE.	vv		
Vladimir Oksman	Broadcom Comment Status D					ged to fix the value of l	(as TBD).	
Comment Type E Wrong reference, s SuggestedRemedy Fix the reference.	should be "Table 62-1".			The v	alue of K will b	e fixed to 128 or 224 or ion to WG ballot.	more TE	3Ds acccording	g to the decision of the
Proposed Response PROPOSED ACCE	Response Status W			C/ 62 Shohet, Z	SC 62.3	o fix this at this point. P3 Infine	-	L 2	# 295
C/ 62 SC 62.1.4 Barrass, Hugh	Cisco	L 25	# 662	Comment	Type E	Comment Status	D	ts is used in th	is sub-clause
Comment Type E OAM flow description	Comment Status D ion should match Clause 61.			<i>Suggeste</i> Add t		ectly after the sub-clau	se title:		
SuggestedRemedy Replace sentence	with:			"The - Refe - Refe	SCM PMA func erence 1-1: T1.4 erence 1-2: T1.4	tionality is specified by 424/Trial-Use standard 424/Trial-Use standard	incorpor Part 1	ating the follow	<i>v</i> ing references:
defined in Clause 4	low across the gamma interface 45. Refer to Clause 45 for a com from the MDIO interface.			- Refe - Refe	erence 3-2: ETS	SI TS 101 270-1 SI TS 101 270-2 "			
Proposed Response PROPOSED ACCE	Response Status W				Response POSED ACCEF	Response Status PT.	w		

PROPOSED ACCEPT.

			P802.3ah [Draft 1.0 Comments			
C/ 62 SC 62.3.2 Shohet, Zion	P 332 Infineon	L 50	# 296	C/ 62 SC 62.3.2.1 Barrass, Hugh	P 333 Cisco	L 47	# 664
Comment Type E make reference to T1E ⁻	Comment Status D			<i>Comment Type</i> E Reference to variable	Comment Status D frame size needs to be remove	d.	
	Frame Format, reference 1-2 rre in this section by: "Stet, w		that only Slow channel	SuggestedRemedy Change phrase to: a payload field of 181 d	octets,		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED REJECT	Response Status W		
C/ 62 SC 62.3.2.1	P333	L 32	# 297	Not relevant if commen	nt 296 accepted		
Shohet, Zion Comment Type E	Infineon Comment Status D			C/ 62 SC 62.3.2.1 Vladimir Oksman	P 334 Broadcom	L1	# 982
"The Sub-frame structu	ures 62-6 & 62-7 of this sect re is identical to the Slow coc exception that only "single la	leword defined in		Comment Type E There is no "EOC" definext two paragraphs. SuggestedRemedy	Comment Status D ned in this standard. There is r	o Reference fo	or VOC. Same about th
Proposed Response PROPOSED ACCEPT.	Response Status W			Either remove EOC or Proposed Response PROPOSED REJECT	add reference to it. Add referen Response Status W	nce to VOC	
C/ 62 SC 62.3.2.1 Barrass, Hugh	P 333 Cisco	L 40	# 663	Refences to EOC and	VOC are contained in 62.3.2.1	.1 and 62.3.2.1	.2
Comment Type E Figure 62-6 shows varia	Comment Status D able size frame which is not r	elevant to this sta	andard.	C/ 62 SC 62.3.2.2. Shohet, Zion	1 P 334 Infineon	L 52	# 298
SuggestedRemedy Delete word "max"				Comment Type E remove the editor's no	Comment Status D te.		
Change "P octets" to "1	81 octets"			SuggestedRemedy			
Also, change "FEC 16 c Proposed Response	ctets" to "FEC 16 octets" Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W		
PROPOSED REJECT.	Nesponse Status W			FROFUSED ACCEPT			

Not relevant if comment 296 accepted

C/ 62 SC 62.3.2.2.2 P337 L3 # 299 C/ 62 SC 62.3.2.2.3 P335 L45 # 302 Shohet, Zion Infineon Shohet, Zion Infineon Comment Status D Comment Type E Comment Status D Comment Type E Remove reference to NTR. Table 62-8 should be here. SuggestedRemedv SuggestedRemedy Change text to: " The Control-1 octet contains the o/r_trig" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED REJECT. C/ 62 SC 62.3.2.2.3 P335 L38# 301 Table 62-8 will not fit (and we cannot restrict the page layout to a fine extent). Paragraph contains a reference to Table 62-8. Shohet, Zion Infineon C/ 62 P336 L49 Comment Type Comment Status D SC 62.3.2.2.6 # 666 E Barrass, Hugh Cisco The editor's note should be deleted Comment Type т Comment Status D SuggestedRemedy There is no reason why this state machine should be "recommended" instead of simply "described." Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Change from: C/ 62 SC 62.3.2.2.3 P335 L38 # 665 A recommended frame delineation state machine is presented here. Barrass, Hugh Cisco to: Comment Status D Comment Type E Editor's note should be removed. The frame delineation state machine is presented here. Proposed Response Response Status W This editor's note is not relevant for this subclause, and is no longer relevant for subclause 62.3.2.2.2 (where it should have been placed). PROPOSED ACCEPT. The description of the NTR reserved bit in control word 1 will allow out of scope C/ 62 SC 62.3.2.2.6 P336 L49 # 305 implementations to use NTR as defined elsewhere. Shohet, Zion Infineon SuggestedRemedy Comment Status D Comment Type E Remove editor's note. add reference to T1e1 Response Status W Proposed Response SuggestedRemedy PROPOSED ACCEPT. 1- Change text from "... here." to "...in reference 1-2 section 11" 2- Delete rest of text and figure 62-8, on page 337. Proposed Response Response Status W PROPOSED ACCEPT.

arrass, Hugh Cisco Comment Type E Replace n by 2. Replace n by 2. Replace n by 3. Replace n by 2. Replace n by 6. Reposed Response Status W PROPOSED REJECT. PROPOSED REJECT. Not relevant if comment 305 accepted. Cisco Ci 62 SC 62.3.2.2.6 P 337 L 33 # [668 Comment Type E Comment Status D Suggested/Remedy Ci 62 SC 62.3.2.2.6 P 337 L 33 # [668 Comment Type E Comment Status D Suggested/Remedy Change paragraphs to the following: D Suggested/Remedy Cisco Change paragraphs to the following: The state machine moves from the SYNC state to the SYNC state when the frame Sync. Event occurs downed/status P Suggested/Remedy Response Response Status W PROPOSED ACCEPT. The state machine moves from the PRESYNC state to the SYNC state when the frame Sync. Event soluted or intercoperability with MCM-VDSL. Suggested/Remedy <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>										
The values of "n" and "n" are defined elsewhere in the text, there is no need to use variables. luggestelfamedy Replace n by 2. Replace n by 2. Replace mby 6. "popsed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. 'I 62 SC 62.3.2.2.6 P 337 L 33 # [668 Comment Type E Comment Status D Variables, n and m, are defined as constants - which makes them redundant bygestelfamedy Reperced ready (2) times. If a violated Sync. Events to the SYNC state when the frame Sync. Event outcomes from the PRESYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state when the frame Sync. Event is outcomment 305 accepted. If 62 SC 62.3.2.2.6 P 337 L 38 # [669] There is no objective or reason for interoperability with MCM-VDSL. Suggestelfamedy Removes explorate 62.4.3 P 442 L # 326] Simon, Scott Ciaco Systems, Inc. Comment Type T Comment Status D There is no objective or reason for interoperability with MCM-VDSL. Suggestelfamedy Removes explorate 62.4.3 P 42 L # 326] Simon Scott Ciaco Systems for interoperability with MCM-VDSL. Suggestelfamedy	C/ 62 Barrass, H			L14	# 667	-			L 35	# 670
variables. SuggestedRemedy Replace m by 2. Replace m by 3. Replace m by 6. Proposed Response PROPOSED REJECT. Not relevant if comment 305 accepted. Variables, n and m, are defined as constants - which makes them redundant suggestedRemedy Parass, Hugh Variables, n and m, are defined as constants - which makes them redundant sync. Event nocurs consecutively 2 limes. If a violated Sync. Event nocurs outs during the HUNT state when the frame Sync. Event solutione for the PRESYNC state to the HUNT state when the frame Sync. Event solutione for the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs outs during the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 limes. If a violated Sync. Event nocurs of the SYNC state to the HUNT state when the frame Sync. Event solutively 6 l	Comment	Туре Е Со	mment Status D			Comment	Type T	Comment Status D		
buggestel/Remedy Rewrite the paragraph as: Replace m by 2. Replace m by 3. Replace m by 6. PROPOSED REJECT. Not relevant if comment 305 accepted. Image: the paragraph as: If Q S C 62.3.2.2.6 P 337 L 33 # 668 Comment Type Comment Status D Cisco Somment Type Comment Status D Cisco Variables, n and m, are defined as constants - which makes them redundant tuggestel/Remedy Cisco Comment Type Change paragraphs to the following: Revrite the frame Sync. Event cours orgonoutively 2 times. If a violated Sync. Event cours orgonoutively 2 times. If a violated Sync. Event orgonase fragonase Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Cisco Simplify values in table 62-10 Suggestel/Remedy Comment Type E Comment Status D Sync. Event orgonase fragonase Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Proposed Responase Responase Status W PROPOSED Response Responase Status W PROPOSED Response Responase Status W PROPOSED Response P337 L 38 Vec Event is comment State sphorthorization signal. Signal PMA_recever_sphorthorization signal.	The va	lues of "n" and "m" are	defined elsewhere in t	the text, there is i	no need to use			leaver block lengths.		
Replace n by 2. Replace n by 2. Replace m by 6. Replace m by 6. roposed Response Response Status W PROPOSED RELECT. Not relevant if comment 305 accepted. Not relevant if comment 305 accepted. P337 L33 # 668 Somment Type Comment Status D PROPOSED RELECT. Need more discussion at STF Variables, nand m, are defined as constants - which makes them redundant Somment Type Comment Status D SuggestadRamedy Represed Response Response Status W PROPOSED RELECT. Need more discussion at STF Ci 62 SC 62.3.2.2.6 P337 L38 # 668 Sync, Event occurs consecutively 2 times. If a violated sync, Event occurs consecutively 2 times. Revised mesponse Response Status W PROPOSED RELECT. Not relevant if comment 305 accepted. Ci 62 SC 62.4.3 P342 L # 826 Not relevant if comment 305 accepted. Cisco SuggestadRamedy Remove subclause 62.4.3 Remove subclause 62.4.3 PROPOSED RELECT. Not relevant if comment Status D Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W <td></td> <td></td> <td></td> <td></td> <td></td> <td>Suggeste</td> <td>dRemedy</td> <td></td> <td></td> <td></td>						Suggeste	dRemedy			
Replace m by 6. Proposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Vi 62 SC 62.3.2.2.6 Parass. Hugh Cisco Variables, n and m, are defined as constants - which makes them redundant taggestedRemedy Comment Type E Charge paragraphs to the following: Comment Type E The state machine moves from the PRESYNC state to the SYNC state when the frame Sync, Event occurs consecutively 2 times. If a violated Sync, Event occurs during the PRESYNC state to the HUNT state when the frame Sync, Event occurs consecutively 2 times. If a violated Sync, Event occurs during the PRESYNC state to the HUNT state when the frame Sync, Event occurs consecutively 2 times. If a violated Sync, Event occurs during the PRESYNC state to the HUNT state when the frame Sync, Event occurs consecutively 2 times. If a violated Sync, Event occurs during the PRESYNC state to the HUNT state when the frame Sync, Event occurs consecutively 2 times. If a violated Sync, Event occurs during the PROPOSED ACCEPT. Cl 62 SC 62.3.2.2.6 P337 L38 Ege Proposed Response Response Status W PROPOSED ACCEPT. Cl 62 SC 62.3.2.2.6 P337 L38 Ege Not relevant if comment 305 accepted. W Proposed Response Response Status W Proposed Response Comment Type T Comment Type T <t< td=""><td>•••</td><td>•</td><td></td><td></td><td></td><td>Rewr</td><td>ite the paragraph as</td><td>6:</td><td></td><td></td></t<>	•••	•				Rewr	ite the paragraph as	6:		
PROPOSED REJECT. Not relevant if comment 305 accepted. Cl 62 SC 62.3.2.2.6 P 337 L 33 # 668 Comment Type E Comment Status D Cisco Variables, n and m, are defined as constants - which makes them redundant Cisco Cisco Cisco Variables, n and m, are defined as constants - which makes them redundant Cisco Comment Type E Comment Status D Variables, n and m, are defined as constants - which makes them redundant Cisco Suggested/Remedy Comment Status D Change paragraphs to the following: The state machine moves from the SYNC state to the SYNC state when the frame Sync. Event occurs during the PRESYNC state, the state machine moves from the SYNC state to the HUNT state. Biock Length (I) = 25 octets S = 200 octets PROPOSED REJECT. PROPOSED REJECT. Ci 62 SC 62.4.3 P342 L # 826 Simon, Scott Cisco Cisco Systems, Inc. Comment Type TR Comment Status D Not relevant if comment 305 accepted. P337 L 38 # 669 Sco Paster Active or eason for interoperability with MCM-VDSL. Suggested/Remedy Cisco Sco Comment Type TR Comment Status D										
2) f 62 SC 62.3.2.2.6 P 337 L 33 # [668] iarrass, Hugh Cisco Comment Status D Simplify Values in table 62-10 Variables, nand m, are defined as constants - which makes them redundant Simplify Values in table 62-10 SiggestedRemedy change paragraphs to the following: The state machine moves from the PRESYNC state to the SYNC state to the SYNC state when the frame Sync_Event occurs consecutively 2 times. SiggestedRemedy The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Proposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Cisco Comment Type T Comment Status D Change arrans, Hugh Cisco Cisco Pasta L # [826] Simon, Scott Cisco Systems, Inc. Comment Type T Comment Status D There is no objective or reason for interoperability with MCM-VDSL. SiggestedRemedy Cisco Pasta L # [826] Simon, Scott Cisco Systems, Inc. Cisco Cisco Pasta L # [826] Simon, Scott Comment Status D Ad to the regarding link state synchronized is asserted when the state machine is in "SYNC" state. Proposed	•		ponse Status W				•	•	TF	
<pre>in Q2 SU 82.3.2.2.6 r.33 r.103 r.100 read reads.Hugh Cisco comment Type E Comment Status D Variables, n and m, are defined as constants - which makes them redundant buggestedRemedy change paragraphs to the following: The state machine moves from the PRESYNC state to the SYNC state when the frame Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine returns to the HUNT state when the frame Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine returns to the HUNT state. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine and the organize of the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine and the state machine is in "SYNC" state. The state machine and subclause: Signal PMA_receive_synchronization signal. Hugh Cisco Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. HugestedRemedy Add paragraph at end of subclause: Signal PMA_receiv</pre>	Not rel	evant if comment 305 a	accepted.			C/ 62	SC 62.3.2.2.9	P340	L 5	# 671
Comment Type E Comment Status D Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Variables, n and m, are defined as constants - which makes them redundant Simplify values in table 62-10 Simplify values in table 62-10 SuggestedRemedy Shore_Event to cours course from the PRESYNC state to the SYNC state when the frame Simon. Scott Clisco Systems, Inc. PROPOSED REJECT. Not relevant if comment 305 accepted. SinguestedRemedy Variables, Add paragraph at end of subclause: Signal PMA_receive_synchronization signal. Signal PMA_receive_synchronizati is asserted when the state machine is in "SYNC" state. Variables, Response Response Status W PROPOSED ACCEPT.	C/ 62	SC 62.3.2.2.6	P 337	L33	# 668	Barrass, H	Hugh	Cisco		
SuggestedRemedy change paragraphs to the following: The state machine moves from the PRESYNC state to the SYNC state when the frame Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Kropposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Cle2 SC 62.3.2.2.6 P337 L 38 LagestedRemedy Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronizatio is gasented when the state machine is in "SYNC" state. Kropposed Response Response Status W	3arrass, H	ugh	Cisco			Comment	Type E	Comment Status D		
Variables, n and m, are defined as constants - which makes them redundant buggestedRemedy change paragraphs to the following: The state machine moves from the PRESYNC state to the SYNC state when the frame Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Troposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Vef 62 SC 62.3.2.2.6 P337 L 38 Large stellRemedy Remove subclause 62.4.3 Proposed Response Response Status W Proposed Response Response Status W PROPOSED RLEADECT. SuggestedRemedy Not relevant if comment 305 accepted. P 337 Cisco P 337 Cisco P 337 Cisco P 342 Proposed Response Response Status W Proposed Response to interoperability with MCM-VDSL. SuggestedRemedy Add note regarding link state synchronized is asserted when the state machine is in "SYNC" state. Renoves accepts	Comment	Tvpe E Co	mment Status D			Simpl	ify values in table 6	2-10		
suggestedRemedy Rewrite the first row of table: change paragraphs to the following: The state machine moves from the PRESYNC state to the SYNC state when the frame Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine returns to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Biock Length (I) I = 25 octets S = 200 octets PRESYNC state, the state machine returns to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Proposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Cisco P337 L38 1669 Comment Type T Comment Status D Remove subclause 62.4.3 Proposed Response Status W Remove subclause 62.4.3 SuggestedRemedy Add note regarding link state synchronization signal. Cisco Remove subclause 62.4.3 Proposed Response Status W Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W PROPOSED ACCEPT.		51		n makes them re	dundant	Suggeste	dRemedy			
change paragraphs to the following: Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine returns to the HUNT state. The state machine moves from the SYNC state to the SYNC state when the frame Sync_Event occurs consecutively 6 times. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Berner Status B to the HUNT state Sync_Status B to the HUNT state	Suggested	Remedy				Rewr	ite the first row of ta	ble:		
Sync_Event occurs consecutively 2 times. If a violated Sync_Event occurs during the PRESYNC state, the state machine returns to the HUNT state. PROPOSED ACCEPT. The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Cl 62 SC 62.4.3 P342 L # 826 Proposed Response Response Status W Cisco Systems, Inc. PROPOSED REJECT. Comment 305 accepted. Comment 305 accepted. Statarass, Hugh Cisco Cisco Add note regarding link state synchronization signal. SuggestedRemedy Add note regarding link state synchronized is asserted when the state machine is in "SYNC" state. PROPOSED ACCEPT. Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. PROPOSED ACCEPT.	00	•	owing:			Block	Length (I) I = 25	5 octets S = 200 octets		
The state machine moves from the SYNC state to the HUNT state when the frame Sync_Event is violated consecutively 6 times. Proposed Response Response Status W PROPOSED REJECT. Not relevant if comment 305 accepted. Cf 62 SC 62.4.3 P342 L # 826 Simon, Scott Cisco Systems, Inc. Comment Type T Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W	Sync_l	Event occurs consecuti	vely 2 times. If a violat	ed Sync_Event c				Response Status W		
PROPOSED REJECT. Not relevant if comment 305 accepted. C/ 62 SC 62.3.2.2.6 P 337 L 38 # 669 T Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W Response Status W PROPOSED ACCEPT.	The sta	ate machine moves from	m the SYNC state to th		nen the frame				-	# 826
PROPOSED REJECT. Not relevant if comment 305 accepted. C 62 SC 62.3.2.2.6 P 337 L 38 # 669 For Comment Status Cisco Comment Type T Comment Status Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W	•		•			Comment	Type TR	Comment Status D		
Not relevant if comment 305 accepted. Remove subclause 62.4.3 Cl 62 SC 62.3.2.2.6 P 337 L 38 # 669 Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status	•	•				There	e is no objective or r	eason for interoperability w	vith MCM-VDSL.	
Aarrass, Hugh Cisco PROPOSED ACCEPT. Comment Type T Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W	Not rel	evant if comment 305 a	accepted.			00		3		
Aarrass, Hugh Cisco PROPOSED ACCEPT. Comment Type T Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W	C/ 62	SC 62.3.2.2.6	P 337	L 38	# 669					
Comment Type T Comment Status D Add note regarding link state synchronization signal. SuggestedRemedy Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W	Jarrass, H	ugh	Cisco			•	•			
Add paragraph at end of subclause: Signal PMA_receive_synchronized is asserted when the state machine is in "SYNC" state. Proposed Response Response Status W		51				-				
Proposed Response Status W	00	•	lause:							
Proposed Response Status W	Signal	PMA_receive_synchro	nized is asserted wher	n the state machi	ne is in "SYNC" state.					
	•	-			-					
	•	•								

C/ 62 SC 62.4.5.2.	2 P 344	L17	# 828	CI 62 SI	C 62.4.5.4		P 347	1	# 820
Simon, Scott	Cisco Systems		# 020	Simon, Scott	02.4.3.4	Ci	sco Systems	s, Inc.	# 620
Comment Type E The three paragraphs t with Annex 62A. As is	Comment Status D hat start with "The frequency		sist" are redundant		as left out th	Comment Sta	<i>tus</i> D e MCM bitsv	vapping functi	on. The bitswapping
SuggestedRemedy Replace the paragraph operate with up to 2 fre plans are described in	with a smaller one that descriquency bands in each directic Annex 62A. nd ensure the same informatic Response Status W	n standard a	and user-defined band	SuggestedRem Add subcla 62.4.5.4.7 f 10.7 of MC (precise ref Proposed Resp	edy use: Reference s M-VDSL is i erence to b	section 10.7 replaced with the e added) <i>Response Sta</i>	relevant spe		Clause 55 and Clause 61.
	ency for use in private networl is conveyed in Annex 62A	k is optional. R	emove Table 62-12,		paragraph 1 C 62.4.5.8	10.7 should be "st	et" P 353	L	# 827
Cl 62 SC 62.4.5.2. Vladimir Oksman Comment Type E The listed band plans a SuggestedRemedy Fix the reference Proposed Response PROPOSED REJECT. Covered by comment 8	Broadcom Comment Status D are inconsistent with 62A. Response Status W	L 20	# <u>983</u>	4.3125KHz to the opera SuggestedRem Remove su MCM-VDSI Proposed Resp	nce describe . This optio ation of 10P nedy bolause 62. L Annex C porse	Comment Sta es an optional mo onal mode must be PASS-T (it adds no	de of operation e made mand o new capabi te the text of tus W	on to use a dif ditory or remov lity), it should 62.4.5 to rem	ove the reference to
Cl 62 SC 62.4.5.2.3 Vladimir Oksman Comment Type E	2 P345 Broadcom Comment Status D mation which belongs to 62A. Response Status W	L1	# <u>984</u>	Vladimir Oksma Comment Type These sect the most of SuggestedRem Add an exp Proposed Resp	an T ions are rele material rel nedy lanation, an nonse D REJECT.	Comment Sta evant for North Ar lates to 62A. Sam nd move the releva Response Sta	roadcom <i>tus</i> D nerica only, t e about Tabl ant Tables to	le 62-23	# 985

C/ 62 Simon, Scot	SC 62.4.6.1.2 tt	P 354 Cisco System	L s, Inc.	# 821	<i>Cl</i> 62 Barrass, Hug	SC 62.5.1.1 h	Р 360 Cisco	L8	# 673
Comment T PSD ma	Type E Comm asks should be specified i	nent Status D in Annex 62A as pa	rt of the profile of	definitions	Comment Ty "One or i		Comment Status D should be "one or two" carrie	rs.	
SuggestedF Move al profiles	II PSD mask descriptions	and tables to Anne	x 62A and numb	per them as part of PMD	SuggestedRe Change	emedy sentence to:			
Proposed R PROPC	Response Respor	nse Status W CIPLE.			carrier ca	in transmit all	an be transmitted in each trar the input data, the other carrie		
Entire s	subclause replaced by:				Proposed Re PROPOS	sponse SED ACCEPT	Response Status W		
	it PSD is characterized by are defined in Annex 62A.		and PSD mask	. PSD templates and	C/ 62 Simon, Scott	SC 62.5.2.1	P 361 Cisco System	L 5 is, Inc.	# 823
C/ 62	SC 62.4.6.1.3	P 358	L	# 822	Comment Ty	pe T	Comment Status D		
Simon, Scot Comment T		Cisco System	s, Inc.			refers to optio ap the number	nal modes with more than two of carriers.	o carriers in each	n direction. EFM PHY
Egress The text	masking of HAM radio ba tt of Annex 62A already re	ands should be addr		f Annex 62A profiles.		he text to stat	e that K (the number of TX ca graph: "Note: Splitting procedu		
SuggestedF	Remedy e 62.4.6.1.3				Proposed Re		Response Status W		
Proposed R		nse Status W			PROPOS	, SED ACCEPT	IN PRINCIPLE.		
	DSED ACCEPT IN PRINC				Use rem	edy form com	nent 674		
	JSED ACCEPT IN FRINC							L7	
	e entire subclause with:				C/ 62	SC 62.5.2.1	P 361	LI	# 674
Replace To avoid TS, it sh		the PSD of the tran	nsmit signal with	in the amateur radio	Barrass, Hug <i>Comment Ty</i>	h pe T	P 361 Cisco Comment Status D ration on more than 2 carriers		# <u>674</u>
Replace To avoid TS, it sh bands.	e entire subclause with: d potential harm to amate hall be possible to reduce	the PSD of the tran	nsmit signal with	in the amateur radio	Barrass, Hug <i>Comment Ty</i>	h pe T option for ope	Cisco Comment Status D		# <u>674</u>
Replace To avoir TS, it sh bands. 3 C/ 62 Barrass, Hu	e entire subclause with: d potential harm to amate hall be possible to reduce Specifications for egress SC 62.5.1.1 Igh	the PSD of the trar power control are d P359 Cisco	nsmit signal with escribed in Ann	in the amateur radio ex 62A.	Barrass, Hug <i>Comment Ty</i> Remove <i>SuggestedRe</i> Operatio	h ope T option for ope emedy n with one and	Cisco Comment Status D	5.	4
Replace To avoid TS, it sh bands. S C/ 62 Barrass, Hu Comment T Accordii streams	e entire subclause with: d potential harm to amate hall be possible to reduce Specifications for egress SC 62.5.1.1 ugh Type E Commission ing to other sections, the solution S.	the PSD of the tran power control are d P359 Cisco nent Status D	nsmit signal with escribed in Ann <i>L</i> 54	in the amateur radio ex 62A. # <mark>672</mark>	Barrass, Hug Comment Ty Remove SuggestedRe Operatio carriers i Proposed Re PROPOS	h option for ope emedy n with one and s not covered sponse SED ACCEPT	Cisco Comment Status D ration on more than 2 carriers t two carriers (K=2) is mandat	s. tory, operation w rith one and two	rith more than two carriers (K=2) is
Replace To avoid TS, it sh bands. S C/ 62 Barrass, Hu Comment T Accordii streams SuggestedF	e entire subclause with: d potential harm to amate hall be possible to reduce Specifications for egress SC 62.5.1.1 ugh Type E Commission ing to other sections, the solution S.	the PSD of the tran power control are d P359 Cisco nent Status D	nsmit signal with escribed in Ann <i>L</i> 54	in the amateur radio ex 62A. # <mark>672</mark>	Barrass, Hug Comment Ty Remove SuggestedRe Operatio carriers i Proposed Re PROPOS	h option for ope emedy n with one and s not covered sponse SED ACCEPT ry, operation v	Cisco Comment Status D ration on more than 2 carriers d two carriers (K=2) is mandat in this standard. Response Status W IN PRINCIPLE. Operation w	s. tory, operation w rith one and two	rith more than two carriers (K=2) is
Replace To avoid TS, it sh bands. S C/ 62 Barrass, Hu Comment T Accordii streams SuggestedF Change	e entire subclause with: d potential harm to amate hall be possible to reduce Specifications for egress SC 62.5.1.1 ugh Type E Common ing to other sections, the second Sc. Remedy	the PSD of the trar power control are d P 359 Cisco nent Status D stream may be split	nsmit signal with escribed in Ann <i>L</i> 54 into one or two	in the amateur radio ex 62A. # <mark>672</mark> - not two or more -	Barrass, Hug Comment Ty Remove SuggestedRe Operatio carriers i Proposed Re PROPOS mandato	h option for ope emedy n with one and s not covered sponse SED ACCEPT ry, operation v	Cisco Comment Status D ration on more than 2 carriers d two carriers (K=2) is mandat in this standard. Response Status W IN PRINCIPLE. Operation w	s. tory, operation w rith one and two	rith more than two carriers (K=2) is

			F 002.3411		inenis				
C/ 62 SC 62.5.2.1 Barrass, Hugh	Р 362 Cisco	L 33	# 675	C/ 62 Barrass, Hug	SC 62.5.4.1.1 gh	P 368 Cisco	L 43	# 679	
Comment Type T	Comment Status D	eration.		Comment TypeTComment StatusDSubclause needs to reflect the management defined in Clauses 30, 45 etc.					
SuggestedRemedy Change paragraph to:				SuggestedR Change	<i>emedy</i> subclause to re	ad:			
Note: Splitting procedure with more than two carriers is useful for multi-loop operation, providing efficient aggregation of loop transport capacity on the physical layer. This mode of operation is outside the scope of this standard. Proposed Response Response Status W PROPOSED ACCEPT.				The PSD of the transmit signals in both directions shall comply with the set PSD template and the wideband power limitation to comply with regionally specific PSD templates and wideband power limitations. The standardized values are specified in Annex 62A, also in Reference 1-1 section 7.1, and Reference 3-1 section 8.2.5.2.1. The network operator should define the PSD template prior to first activation of the link. The default PSD templa shall be as specified in subclause 62.5.6.2.1.					
C/ 62 SC 62.5.4.1 Barrass, Hugh	P 368 Cisco	L 37	# 678	Proposed Re PROPO	esponse SED ACCEPT I	Response Status W N PRINCIPLE.			
Comment Type T Subclause needs to re	Comment Status D flect management access as	defined in Claus	e 30, 45 etc.	The PSD of the transmit signals in both directions shall comply with the set PSD template and the wideband power limitation to comply with regionally specific PSD templates and wideband power limitations. The standardized values are specified in Annex 62A.					
SuggestedRemedy Change subclause to r	ead:			<i>CI</i> 62 Barrass, Hug	SC 62.5.4.1.2	Р 368 Сіsco	L51	# 680	
All options to control transmit PSD and wideband power are available independently in both transmission directions. Control parameters are defined in Clause 30. Access to PSD control through MDIO is defined in Clause 45. Access to remote PSD parameters during			Comment Ty Subclau		Comment Status D ect the management define	d in Clauses 30,	45 etc.		
handshaking at link startup is defined in subclause 61.3				SuggestedR	emedy				

Proposed Response Response Status W

PROPOSED ACCEPT.

The system shall be capable to adjust the value and shape transmit PSD. The adjustment is provided via the management system, as specified in Clause 30. Access to the parameters via the MDIO interface is defined in Clause 45. Additional information is available in Annex 62A and subclause 62.5.6.2.2. In particular, the system shall provide capability for PSD reduction in the frequency range below 1.1 MHz to provide spectral compatibility with CObased ADSL for cabinet and MDU deployments.

Proposed Response Response Status W PROPOSED ACCEPT.

Change subclause to read:

			P802.3ah l	Draft 1.0 Comments
Cl 62 SC 62.5.4.2.2.2 Barrass, Hugh	Р 365 Cisco	L 53	# 676	Cl 62 SC table 62-9 Shohet, Zion
Comment Type T Comment Spectral s	Comment Status D haping modes.			Comment Type E Comment add reference to items in table 62-9
SuggestedRemedy Change paragraph to:				SuggestedRemedy 1- IB-12 and IB-13: add a note: " see
The transceiver must provious bandwidth parameters, in the provided outside the scope	ne range between 0.1 to (Proposed Response Response PROPOSED ACCEPT.
	esponse Status W			C/ 62 SC table 62-7 Shohet, Zion
The transceiver must provid bandwidth parameters, in the outside the scope of this sta	de the excess bandwidth ne range between 0.1 to 0			Comment Type E Comment Table 62-7 needs to be modified
Cl 62 SC 62.5.4.2.2.2 Barrass, Hugh Comment Type E Change out of scope note.	P 367 Cisco Comment Status D	L1	# 677	SuggestedRemedy 1- add text to the note column of the 2- add text to the Value column of IB 3- Name of Bit 1 should be cahnged item should be cleared. The Descript 4- Name column of bit 0 should be cl Value should be cleared.
SuggestedRemedy Change sentence to: Note: Power and group dela	ay templates for other val	ues of a are out	side the scope of this	Proposed Response Response PROPOSED ACCEPT IN PRINCIPL
standard. Proposed Response R PROPOSED ACCEPT.	esponse Status W			Change 4th element of remedy: Description column change to "NTR
C/ 62 SC table 62-8 Shohet, Zion	P 336 Infineon	L1	# 303	C/ 62A SC 1 Gustafsson, Jonas
Comment Type E d Table 62-8 should be modif	Comment Status D fied to include more detai	ls, and to fix sor	ne typo's.	Comment Type E Comment There is currently no Annex 62B.
SuggestedRemedy 1- IB-7: change "os_cr1" to 2- For IB-7 & IB-8: add a no	ote: "see reference 1-2 se			SuggestedRemedy Add Annex 62B. Consider to add Annex 63A and 63B and 62B
3- IB-9: change "fsef" to "fro Add a note: "see reference		on to: "far-end R	emote defect Indicator".	Proposed Response Response

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

	C/ 62 SC table 62-9 Shohet, Zion	P 336 Infineon	L 21	# 304
	,	nment Status D		
	SuggestedRemedy 1- IB-12 and IB-13: add a note	: " see reference 1-1 s	section 10.3.3.2"	
e	Proposed Response Resp PROPOSED ACCEPT.	oonse Status W		
	C/ 62 SC table 62-7 Shohet, Zion	P 335 Infineon	L11	# 300
vided	Comment Type E Cor Table 62-7 needs to be modifi	<i>mment Status</i> D ed		
		of the first two items, n of IB-1: "0=Normal s		
	2- add text to the Value colum 3- Name of Bit 1 should be cal item should be cleared. The D 4- Name column of bit 0 shoul	n of IB-1: "0=Normal s nnged from "IB-5 (TBI escription should be "	stat, 1=failure cor D)" to "IB-5". The reserved" only.	ndition" Value column for thi
	2- add text to the Value colum 3- Name of Bit 1 should be cal item should be cleared. The D 4- Name column of bit 0 shoul Value should be cleared.	n of IB-1: "0=Normal s nnged from "IB-5 (TBE escription should be " d be changed from "N poonse Status W	stat, 1=failure cor D)" to "IB-5". The reserved" only.	ndition" Value column for thi
this	2- add text to the Value colum 3- Name of Bit 1 should be cal item should be cleared. The D 4- Name column of bit 0 shoul Value should be cleared. Proposed Response Resp	n of IB-1: "0=Normal s nnged from "IB-5 (TBI escription should be " d be changed from "N conse Status W NCIPLE.	stat, 1=failure cor D)" to "IB-5". The reserved" only.	ndition" Value column for thi
this	2- add text to the Value colum 3- Name of Bit 1 should be cal item should be cleared. The D 4- Name column of bit 0 shoul Value should be cleared. Proposed Response Resp PROPOSED ACCEPT IN PRIM	n of IB-1: "0=Normal s nnged from "IB-5 (TBE escription should be " d be changed from "N bonse Status W NCIPLE.	stat, 1=failure cor D)" to "IB-5". The reserved" only. ITR" to "not used	ndition" Value column for thi ". The Description ar
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 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
 Page 177 of 190

 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 62A SC 1

C/ 62A	SC 62A.3	P 377

Simon, Scott

377 L

Cisco Systems, Inc.

825

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

The text of the subclause refers to user-defined bandplan and PSD Mask profiles. No constraints are placed on the definition of user-defined bandplans.

SuggestedRemedy

Using appropriate editorial license, create subclause 62A.3.3.4.1 "User-defined bandplan" with the following text:

10PASS-T PHYs shall support user-defined bandplans within the limits described below. User defined bandplans are specified by choosing a set of frequency bands, their transmission direction and their boundaries.

Up to four frequency bands may be selected. Frequency band 0 may be selected to transmit in either the upstream or downstream direction. Frequency bands 1 and 3 transmit downstream. Frequency bands 2 and 4 transmit upstream.

The start and end frequencies of each band may be specified in integer multiples (n) of 4KHz, where $n \ge 6$ and $n \le 3000$. The minimum separation between bands is TBD. If a PHY is set with a profile that violates a minimum band separation, then TBD (the PHY ignores the setting, or refuses to link, etc. If band 0 is selected as a downstream band, the band 0 end and band 1 start frequencies may be both set to n = 35, indicating that band 0 and band 1 will operate as a single contiguous downstream band.

Using appropriate editorial license, create subclause 62A.3.3.4.2 "User-defined PSD mask" with the following text:

For each selected frequency band, a user-defined PSD mask may also be specified by selecting a maximum transmit PSD for that band. 10PASS-T PHYs shall support setting the maximum transmit PSD of each band as follows in 0.5dBm/Hz increments. Band 0: TBD (ed note. this max PSD should match the same number from ADSL). Band 1: TBD, Band 2: TBD, Band 3: TBD, Band 4: TBD.

Also, include a table to summarize each of the parameters in a user defined profile and its limits. Example (and only and example!):

Band 0 Activate: 1,0 Band 0 Start: 4-34 Band 0 End: 5-35 Band 0 Max PSD: -40dBm/Hz Band 1 Activate: 1,0 Band 1 Start: 35-3000 Band 1 End: 36-3000 Band 1 Max PSD: -55dBm/Hz etc. etc. etc. Also, add the following note to the bottom of 62A.3.1

Ed. Note: Comformance testing for 10PASS-T phys should be based on cycling each parameter above and observing the output of the PHY on a spectrum analyzer. The actual procedure and limits for doing so should be described in A62B.

Proposed Response Response Status W

PROPOSED REJECT. Need to be discussed at the SubTask Force. This is not suitable as defined and is restrictive.

C/ 62A Vladimir Oł		2A.3.1		P 377 Broadcom		# 986	
Comment Mentio	11	E nd 0+4) is	Comment Status s not defined.	D			
Suggested There			ropriate reference or	a definit	ion included.		
Proposed I PROP		e EJECT.	Response Status	W			
Need s	specific r	remedy					
C/ 62A Vladimir Ol		2A.3.1	P3 Broad	-	L 2	# 989	
Comment There		T much mo	Comment Status re other useful comb	-	of used and unu	sed band assigr	nment.
Suggested	Remedy	/					

Specify a "band allocation code" and provide explanation that all band combinations may be used. We can decide later whether we would like to use some as optional/mandatory ones.

Proposed Response	Response Status	w	
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PROPOSED REJECT.

Need	specific remedy				
C/ 62A Vladimir O	SC 62A.3.1 ksman	P 378 Broadcom	L 2	# 990	
Comment ETSI a	51	Comment Status D ons are mentioned not clear.			
Suggested Use "T		Part 1" and "TS1 101 270 -1"			
Proposed PROP	Response OSED ACCEPT.	Response Status W			

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 178 of 190 C/ 62A SC 62A.3.1

C/ 62A SC 62A.3.1 Vladimir Oksman	P 378 Broadcom	L 2	# 988	C/ 62A SC 62 Vladimir Oksman	2A.3.3.5	P 378 Broadcom	L 44	# 991
Comment Type T There is no "Plan 998" a	Comment Status D					nment Status D	ha mara hit rage	vised to define the DCD
	and Plan 997 In ITU.			about 0.5 dB of			be more bit requ	uired to define the PSD,
SuggestedRemedy	A", and "G.993.1 Bandplan I	D" instead		SuggestedRemedy				
	, I	5 instead.		Check the PSD	definition and f	ix the text to be more	clear.	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED RI		oonse Status W		
C/ 62A SC 62A.3.2 Vladimir Oksman	P 377 Broadcom	L 45	# 987	Need specific re	emedy			
Comment Type E	Comment Status D			C/ 62A SC 62	2A.3.4	P 379	L15	# 992
	t reference which registers s			Vladimir Oksman		Broadcom		
parameters specifying the	ne profile. Otherwise, a confu	ision may happe	en.	Comment Type	T Con	nment Status D		
SuggestedRemedy Add reference and name	es of registers specifying ead	ch of the profile p	parameters.			ission profiles have p s 26, 27 slightly contra		
Proposed Response	Response Status W			SuggestedRemedy				
PROPOSED REJECT.						e "minimum payload r eir specific granularity.		
Need specific remedy.				Proposed Response	e Resp	onse Status W		
C/ 62A SC 62A.3.3.5	P 378	L 41	# 824	PROPOSED A	CCEPT IN PRIN	ICIPLE.		
Simon, Scott	Cisco System	s, Inc.		Need specific re	emedy			
Comment Type TR	Comment Status D			C/ 62A SC 62	× 2 4	P 379	L15	# 307
	ation" has not been discusse he need for or function of "B			Shohet, Zion	2A.J.4	Infineon	L 15	# 307
SuggestedRemedy				Comment Type	T Con	nment Status D		
	ncept of "Bandplans parame remove or clarify the subclau		editor shall take	comply with the	short-range ob	defined. There is no r jective of EFC-Cu.		
Proposed Response	Response Status W			We need to def on.	ine several bas	ic payload rates such	as: 2.5/2.5, 5/5,	7.5/7.5, 10/10, and so
PROPOSED REJECT.				These basic rat this annex.	es might also b	e used for testing of p	erformance, as s	stated in the begining of
Need specific remedy.				SuggestedRemedy				
				Proposed Response PROPOSED RI	,	oonse Status W		

Need specific remedy

C/ 62A SC 62A.3		379	L 34	# 993	CI 63	SC 63	3.1		P 376	L	# 99019
Vladimir Oksman	Broad	dcom			Wei, Dong				SBC Comm	unications,	
Comment Type T	Comment Status	-			Comment 7		TR	Comment			D1.0 #416
There is not mentio	ned how and where the	notch sho	ould be program	med.) Annex J. Since Annex J L-over-ISDN is the
SuggestedRemedy											requirements of Annex J
Add a reference po	inting the register and th	ne explain	briefly how to s	pecify the notch.							nt in the U.S. As a future
Proposed Response	Response Status	w						02.3ah draft sh	iouid not adop	DUTINS PHT.	
PROPOSED ACCE	EPT IN PRINCIPLE.				Suggested			ause (from Pa	no 376 to Dog	0.541)	
Need specific reme	edy									je 541).	
CI 63 SC	Pa	382	L12	# 803	Proposed F	Cesponse DSED RI		Response	Status VV		
Artman, Doug		s Instrume		# 003	FROF		LJLCI.				
Comment Type E	Comment Status		onto		Covere	d by res	ponse to	o 99018			
51		-			C/ 63	SC 63	2 1		P376	1	# 99018
The note indicates	that the text for 2RASE."	TI rofore t	to a document f	rom an interim meeting	C/ 03	00 0.			1 310	L	" 33010
	that the text for 2BASE- he referenced document			rom an interim meeting n of the G.shdsl.bis	Wei, Dong	00 0	5.1		SBC Comm	unications,	# <u>33010</u>
of ITU SG15/q4. TI standard that is in p		t is actuall	ly a draft versior	n of the G.shdsl.bis			TR	Comment	SBC Comm	unications,	<i>"</i> <u>33010</u> D1.0 #415
of ITU SG15/q4. TI standard that is in p where possible.	he referenced document	t is actuall	ly a draft versior	n of the G.shdsl.bis	Wei, Dong Comment 7 2BASE	<i>Type</i> -TL is a	TR much be		SBC Commu Status D	·	
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of ITU SG15/q4. TI standard that is in p where possible. SuggestedRemedy Modify references t Proposed Response PROPOSED ACCE CI 63 SC 1.1.2 Gustafsson, Jonas Comment Type T Incorrect data rate. SuggestedRemedy Change to: a) Provide 2Mbps e	he referenced document progress in the ITU. We to use the latest released <i>Response Status</i> EPT. <i>P3</i> Erics <i>Comment Status</i> encapsulated packet data	t is actuall should be d version o W 383 son 5 D a rate at th	ly a draft versior e referring to est of the G.991.2 (<i>L</i> 48	n of the G.shdsl.bis tablished standards G.shdsl) standard. # 226	Wei, Dong Comment 7 2BASE followin 1) 2BAS most nc 2) Lab/r TL-type and tha perform 3) 2BAS network 4) 2BAS 5) 2BAS applica deploye TL.	Type -TL is a ing reason SE-TL ha oise mood field tests a technolat anoce. SE-TL is SE-TL is SE-TL sis SE-TL sis tions. 2F and on lor Remedy	TR much be ns: as a sig dels that ing and logies (e SS-TL-t a a basis ected. 21 a matu upports PASS-TI ng loops	etter PHY for t nificantly bette are commonl deployment h e.g., SHDSL, H type technolog system in T1 PASS-TL does re and proven repeater mod does not sup and hence ca	SBC Commu Status D he long-reach er simulated ra y used; ave shown the IDSL2/4) is ve jies (e.g., ADS .417 and hence s not have this technology, a e, which is a co port repeater in achieve mu	a objective than a ate/reach perform at the real-world ery close to their SL) is significant ce its deployments advantage. and 2PASS-TL is common required mode. Therefor uch broader mark	D1.0 #415 2PASS-TL due to the mance than 2PASS-TL for I performance of 2BASE- r simulated performance, ly below their simulated at in the public access s new and untested. ment for business re, 2BASE-TL can be
of ITU SG15/q4. TI standard that is in p where possible. SuggestedRemedy Modify references t Proposed Response PROPOSED ACCE CI 63 SC 1.1.2 Gustafsson, Jonas Comment Type T Incorrect data rate. SuggestedRemedy Change to: a) Provide 2Mbps e Proposed Response	he referenced document progress in the ITU. We to use the latest released <i>Response Status</i> EPT. <i>P</i> 3 Erics <i>Comment Status</i> encapsulated packet data <i>Response Status</i>	t is actuall should be d version o W 383 son 5 D a rate at th	ly a draft versior e referring to est of the G.991.2 (<i>L</i> 48	n of the G.shdsl.bis tablished standards G.shdsl) standard. # 226	Wei, Dong Comment 7 2BASE followin 1) 2BAS most nc 2) Lab/r TL-type and tha perform 3) 2BAS network 4) 2BAS 5) 2BAS applica deploye TL.	Type -TL is a ing reason SE-TL ha oise mood field tests a technolat anoce. SE-TL is SE-TL is SE-TL sis SE-TL sis tions. 2F and on lor Remedy	TR much be ns: as a sig dels that ing and logies (e SS-TL-t a a basis ected. 21 a matu upports PASS-TI ng loops	etter PHY for t nificantly better are commonl deployment h a.g., SHDSL, H type technolog s system in T1 PASS-TL does re and proven repeater mod does not sup	SBC Commu Status D he long-reach er simulated ra y used; ave shown the IDSL2/4) is ve jies (e.g., ADS .417 and hence s not have this technology, a e, which is a co port repeater in achieve mu	a objective than a ate/reach perform at the real-world ery close to their SL) is significant ce its deployments advantage. and 2PASS-TL is common required mode. Therefor uch broader mark	D1.0 #415 2PASS-TL due to the mance than 2PASS-TL for I performance of 2BASE- r simulated performance, ly below their simulated at in the public access s new and untested. ment for business re, 2BASE-TL can be
of ITU SG15/q4. TI standard that is in p where possible. SuggestedRemedy Modify references to Proposed Response PROPOSED ACCE CI 63 SC 1.1.2 Gustafsson, Jonas Comment Type T Incorrect data rate. SuggestedRemedy Change to: a) Provide 2Mbps e	he referenced document progress in the ITU. We to use the latest released <i>Response Status</i> EPT. <i>P</i> 3 Erics <i>Comment Status</i> encapsulated packet data <i>Response Status</i>	t is actuall should be d version o W 383 son 5 D a rate at th	ly a draft versior e referring to est of the G.991.2 (<i>L</i> 48	n of the G.shdsl.bis tablished standards G.shdsl) standard. # 226	Wei, Dong Comment 7 2BASE followin 1) 2BAS most nc 2) Lab/r TL-type and tha perform 3) 2BAS network 4) 2BAS 5) 2BAS applica deploye TL.	Type -TL is a ng reason SE-TL ha oise moo field test e technol at of 2PA hance. SE-TL is k is prote SE-TL si SE-TL si SE-TL si SE-TL si Remedy the entir	TR much be ns: as a sig dels that ing and logies (e .SS-TL-1 ; a basis ected. 21 ; a basis ected. 21 ; a matu upports PASS-TI ng loops e subcla	etter PHY for t nificantly bette are commonl deployment h e.g., SHDSL, H type technolog system in T1 PASS-TL does re and proven repeater mod does not sup and hence ca	SBC Commu Status D the long-reach er simulated ra y used; ave shown the IDSL2/4) is ve jies (e.g., ADS 417 and hend s not have this technology, a e, which is a c port repeater in achieve mu	a objective than a ate/reach perform at the real-world ery close to their SL) is significant ce its deployments advantage. and 2PASS-TL is common required mode. Therefor uch broader mark	D1.0 #415 2PASS-TL due to the mance than 2PASS-TL for I performance of 2BASE- r simulated performance, ly below their simulated at in the public access s new and untested. ment for business re, 2BASE-TL can be

This is an opinon. This would require a vote in the Task Force to overturn the adoption of 2 candidate PHYs and adopt only one PHY to meet the objective.

C/ 63	SC 63.1	P 376	L	# 99017
Wei, Dong		SBC Commun	ications,	
standard must be l ADSL2 is	described in t ized technolog based on an A based. As a f	Comment Status D his subcluase is based on AD y in the U.S. In fact, any stand NSI standard. There does not future ANSI standard, the P80 nology in the U.S.	dardized DSL exist any AN	technology in the U.S. SI standard on which
SuggestedRe Delete th	-	ause (from Page 376 to Page s	541).	
Proposed Re PROPOS	sponse SED REJECT.	Response Status W		
Covered	by response to	o 99018		
CI 63 WEI, DONG	SC 63.1	P 383 SBC Commun	L 1 ications,	# 638
2BASE-T following 1) 2BASI most nois 2) Lab/fie TL type t and that performa 3) 2BASI network i 4) 2BASI 5) 2BASI	L is a much b reasons: E-TL has a sig se models that echnologies (e of 2PASS-TL-1 nce. E-TL is a basis s protected. 21 E-TL is a matu E-TL supports	me as Comment #415 on Dra etter PHY for the long-reach o nificantly better simulated rate : are commonly used; deployment have shown that e.g., SHDSL, HDSL2/4) is very type technologies (e.g., ADSL : system in T1.417 and hence PASS-TL does not have this a re and proven technology, and repeater mode, which is a cor _ does not support repeater m	bjective than /reach perforr the real-world r close to their) is significant its deploymer dvantage. d 2PASS-TL is nmon require	mance than 2PASS-TL for performance of 2BASE- simulated performance, ly below their simulated at in the public access s new and untested. ment for business
TL. SuggestedRe	emedy le entire subcla	and hence can achieve much ause (from Page 383 to Page Response Status W		ket potential than 2PASS-

PROPOSED REJECT.

Covered by response to 99018

C/ 63	SC 63.1	P 383	L1	# 639
WEI, DON	١G	SBC Communic	ations,	

Comment Type TR Comment Status D

This comment is the same as Comment #416 on Draft 1.0.

The PHY described in this subcluase is based on ADSL2 (G.992.3) Annex J. Since Annex J was developed primarily for some European countries where ADSL-over-ISDN is the dominant ADSL variant, G.992.3 does not specify the performance requirements of Annex J for North America. Therefore, Annex J is not suitable for deployment in the U.S. As a future ANSI standard, the P802.3ah draft should not adopt this PHY.

SuggestedRemedy

Delete the entire subclause (from Page 383 to Page 409).

Proposed Response Response Status W

PROPOSED REJECT.

Covered by response to 99018

C/ 63	SC 63.1	P 383	L1	# 640
WEI, DONG	3	SBC Communio	cations,	
Comment 7	Type TR	Comment Status D		

This comment is the same as Comment #414 on Draft 1.0.

The PHY described in this subcluase is based on ADSL2 (G.992.3). ADSL2 is not a standardized technology in the U.S. In fact, any standardized DSL technology in the U.S. must be based on an ANSI standard. There does not exist any ANSI standard on which ADSL2 is based. As a future ANSI standard, the P802.3ah draft should not adopt any non-standardized DSL technology in the U.S.

SuggestedRemedy

Delete the entire subclause (from Page 383 to Page 409).

Proposed Response Response Status W

PROPOSED REJECT.

Covered by response to 99018

			1 002.0011 E		monto			
C/ 63 SC 63.1.1 Kimpe, Marc	<i>P</i> 383 ADTRAN	L 30	# 32	C/ 63 Artman, Dou	SC 63.1.2.1 Jg	P 386 Texas Instrum	L 4143 ents	# 795
to existing standards s J over POTS is not a s	plies to the following sections: 15			about th Clause S <i>uggestedF</i> We sho	in subclauses the concept of a 63 include 63.1 Remedy uld eliminate the	Comment Status D in Clause 63 refer to sections network timing reference (NTI .2.3 and 63.1.2.8.1 e concept of an NTR from 2PA	R). The addition	al subclauses in
63.1.3.10 page 395 lin 63.1.3.13.1.3 page 39 SuggestedRemedy				Proposed R		3 as appropriate. Response Status W		
Remove the annex J c				CI 63	SC 63.1.2.11	P 389	L 50	# 423
Proposed Response PROPOSED REJECT	Response Status W			Tzannes, M	arcos	Aware		
Refer to baseline(slide	e 26) proposed as basis for the P 386	e draft. <i>L</i> 3739	# 794	by enab	a very useful fea ling data rate a	Comment Status D ature because it provides robu daptation without errors or se icular link G.992.3 provides a	rvice interruption	. If rate adaptation is
Artman, Doug Comment Type T	Texas Instrum Comment Status D	ents				able or enable SRA. DRR app at reason should not be used i		
It is unclear as to whet to four frame bearers.	ther EFM should maintain the There are numerous sections to support less than 4 frame l	in Annex J that	would need to be		V standard sha	II support optional SRA as def Il not support DRR.	fined in G.992.3	
referenced in this subc 63.1.2.10.1.1, and 63.	clause, as well as subclauses 1.2.10.3.	63.1.2.5, 63.1.2.0	6, 63.1.2.6.2,	Proposed R PROPC	•	Response Status W		
	e number of frame bearers to riate to reflect this restriction.	1 and each of the	ese subclauses should			ow it can work with Clauses 3	0 and 45.	

Proposed Response

PROPOSED ACCEPT.

Requires explicit vote to adopt this change.

Response Status W

C/ 63	SC 63.1.2.11	P 389	L 5054	# 797	ŀ
Artman, I	Doug	Texas Instrum	ents		-

Artman, Doug

Comment Type Т Comment Status D

G.992.3 supports 3 forms of On-line Reconfiguration (OLR): Bitswap, Dynamic Rate Repartioning (DRR) and Seamless Rate Adaptation (SRA). Bitswap adjusts the number of bits applied to specific tones while keeping the total number of bits allocated constant. DRR also keeps the total number of bits constant, but readiusts the number of bits allocated to different latency paths. SRA is capable of modifying not only the bit distribution among all carriers but can also modify the overall data rate by adjusting the total number of bits allocated. In G.992.3 bitswap is required while DRR and SRA are optional. The EFM Task Force needs to decide whether they want to maintain support for DRR and SRA for 2PASS-TL. The other relevant subclauses in Clause 63 are 63.1.2.11.1, 63.1.2.11.1, 63.1.2.11.1.2 and 63.1.3.16.

SuggestedRemedy

EFM should maintain support for bitswap but simplify the OLR protocol and eliminate support for DRR and SRA. DRR is not required with only a single latency path and SRA has no utility if we are nailing the data rate up at 2 Mbps. It is suggested to modify the referenced subclauses as necessary to remove support for DRR and SRA.

Proposed Response	Response Status	W	
PROPOSED REJECT.			

Needs specific remedy

CI 63	SC 63.1.2.12	P 390	L 26	# 424
Tzannes.	Marcos	Aware		

Comment Type TR Comment Status D

Power management (L3 and L2) is a very useful feature because it provides power saving when data transmission requirements are reduced. If Power Management is not desirable for a particular link G.992.3 provides a MIB controlled parameter (PM MODE) that can be used to disable or enable Power Management.

SugaestedRemedv

The EFM standard shall support Power Management as defined in G.992.3

Proposed Response Response Status W

PROPOSED REJECT.

This must be resolved in conjunction with comment 798

C/ 63	SC 63.1.2.12	P 390	L 2630	# 798	
Artman, D	Doug	Texas Instrum	nents		

Comment Status D

Comment Type т

G.992.3 supports a Power Management mode wherein the ATU-C will dramatically reduce the downstream data rate (and subsequently save ATU-C power) when there is no data to be transmitted. The EFM Task Force must address this feature and determine if this should be supported as part of 2PASS-TL. The other relevant subclauses in Clause 63 pertaining to this issue are 63.1.3.5.1, 63.1.3.7, 63.1.3.7.2, 63.1.3.7.4, 63.1.3.7.5, 63.1.3.7.6, 63.1.3.17 and 63.1.4.

SuggestedRemedy

2PASS-TL should continually maintain a constant bit rate of 2 Mbps and not support this mode. The subclauses specified above should be modified to remove support for the power management mode.

Proposed Response Response Status W

PROPOSED REJECT.

This must be resolved in conjunction with comment 424

C/ 63	SC 63.1.2.4	P 387	L913	# 796
Artman, D	Doug	Texas Instrumer	nts	
•	-			

Comment Type Comment Status D т

G.992.3 (ADSL2) provides support for multiple latency paths through the PHY layer. The EFM Task Force must decide if they want to maintain support for multiple latency paths as in G.992.3, or limit the number of potential latency paths and to what number do they wish to limit this to. In addition, the task force must decide if they want the latency on each path to be configurable (as in G.992.3 or fixed to a certain value. This issue is relevant not only to the subclause but also subclauses 63.1.2.5, 63.1.2.6, 63.1.2.6.2, 63.1.2.7.2, 63.1.2.10.1.1 and 63.1.2.10.3.

SuggestedRemedv

2PASS-TL should provide support for only 1 latency path, but the latency on that path should be provisionable as currently supported in G.992.3. The referenced subclauses of Clause 63 should be modified as appropriate to reflect this limitation.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/63 SC 63.1.3.10 P 395 L 3 # 799 Artman, Doug Texas Instruments	C/ 63 SC 63.1.5 P 406 L 29 # 33 Kimpe, Marc ADTRAN
Comment Type E Comment Status D	Comment Type TR Comment Status D
The subclause reference in the first sentence is wrong.	The title of clause 63.1.5 is "PSD Masks and Transmit Power- EFM Long Reach system
SuggestedRemedy The first sentence should be modified as follows: Spectral masks for the different	operating in the frequency band over POTS". Clause 63 was meant to include the standard by reference with deviation from the standard highlighted, yet clause 63.1.5 does not exist ice within annex J and is listed here.
options are defined in subclauses 63.1.5 and 63.1.6.	SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	 Clearly mark what are the changes with respect to existing standards. remove all sections related to annex J over POTS.
C/ 63 SC 63.1.3.14 P 403 L 3036 # 801 Artman, Doug Texas Instruments	Proposed Response Response Status W PROPOSED REJECT.
Comment Type T Comment Status D	Refer to baseline(slide 26) proposed as basis for the draft.
G.992.3 provides for an optional Short Inititalization Procedure. The EFM Task For to discuss support for this optional procedure and decide whether it should be sup 2PASS-TL.	(/ 53) (. 53) 577) P407 / 2849 = ± 1802
uggestedRemedy	Comment Type TR Comment Status D
The primary utility of the Short Initialization Procedure is to provide a quicker traini	The PSD masks for the upstream operating over POTS still need to be specified.
session to get to Showtime if the modems were previously in Showtime and need due to a change in line conditions. Although this feature is optional in G.992.3 and	train SuggestedRemedy
could choose whether to provide support, we should just eliminate this from 2PAS further simplify the standard. It is unclear yet how well this feature will truly work a yet to be implemented in ADSL chipsets.	to See accompanying contribution for the PSD masks to be used for the upstream direction
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT.
Need specific remedy	C/ 63 SC 63.2 P410 L56 # 804
/ 63 SC 63.1.3.5.1 P391 L5254 # 800	Artman, Doug Texas Instruments
rtman, Doug Texas Instruments	Comment Type E Comment Status D
Comment Type T Comment Status D The EFM Task Force needs to decide whether 2PASS-TL should support the rate	
nature of G.992.3 or fix the US/DS rates to 2 Mbps in each direction. Modification section (and possibly others) are required if the rate is to be fixed.	his SuggestedRemedy
uggestedRemedy	Change sentence to: These copper pairs are identical to those currently used in the acces network according to ANSI, ETSI and ITU-T standards.
EFM should maintain the rate adaptive nature of G.992.3 and allow the ATU-C to provision the acceptable rates. No modifications are required to the text, other that explanatory note. The Editor's Comment should be removed.	W Proposed Response Response Status W
Proposed Response Response Status W	

PROPOSED ACCEPT.

Page 184 of 190 C/ 63 SC 63.2

			P802.3ah D	raft 1.0 Comments			
C/ 63 SC 63.2 Jackson, Stephen	P 542 Hatteras Netwo	L 10 prks	# 99020	C/ 63 SC 63.2.2 Artman, Doug	P 410 Texas Instrumer	L 33	# 806
Comment Type E "the copper networks"	Comment Status D		D1.0 #400		Comment Status D doesn't really belong here. Bon clause and this clause should for		
SuggestedRemedy needs claification, mayb Proposed Response	be say "public loop plants" like Response Status W	in the precedin	g paragraph	SuggestedRemedy Remove item f)			
PROPOSED REJECT.				Proposed Response PROPOSED ACCEF	Response Status W		
Cl 63 SC 63.2	04 P 542 Texas Instrume	L 56	# 99021	C/ 63 SC 63.2.2 Artman, Doug	P 542 Texas Instrumer	L 28 nts	# 99022
Artman, Doug Comment Type E The sentence beginning	Comment Status D g with "The copper category" i		D1.0 #423	Comment Type E The word operating is	Comment Status D s misspelled.		D1.0 #426
to be said there. Is the	intent to inform the reader that identical to those being used	t the type of cop	opers pairs over which	SuggestedRemedy correct spelling			
SuggestedRemedy These copper pairs are ANSI, ETSI and ITU-T s	identical to those currently us standards.	ed in the acces	s network according to	Proposed Response PROPOSED ACCEF	Response Status W T.		
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 63 SC 63.2.2 Artman, Doug	P 542 Texas Instrumer	L 30	# 99023
C/ 63 SC 63.2.2 Artman, Doug	P 410 Texas Instrume	L 3132	# 805		Comment Status D) doesn't really belong here. Bon clause and this clause should for		
Comment Type E The word operating is m	Comment Status D nisspelled.			SuggestedRemedy Remove item f)			
SuggestedRemedy correct spelling				Proposed Response PROPOSED ACCEF	Response Status W T. Need updated material or pres	sentation to d	liscuss and then agree
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 63 SC 63.2.2 Jackson, Stephen	(e) P 542 Hatteras Networ	L 29 ks	# 99024
				Comment Type E figure "6" should be "	Comment Status D 5"		D1.0 #401
				SuggestedRemedy change to "5"			
				Proposed Response PROPOSED ACCEF	Response Status W T.		

C/ 63 SC 63.2.3	P 410	L 41	# 807	C/ 63		63.2.4.1.1	P 543 Tayaa laatuum	L 4	# 99026
Artman, Doug	Texas Instrum	nents		Artman, D	0		Texas Instrum	ients	
	Comment Status D should be removed: "When			<i>Comment</i> The a		E s STU-C ar	Comment Status D of STU-R are not defined pre	eviously.	D1.0 #427
standard here, and not le may come later. I believ	, the revision shall apply." V eaving the door wide open to ve 802.3 should create a def	o any other follo initive standard	w-on standards that and reference a specific	Suggester Editor		-	ely define these acronyms o	r use more gene	eric terms.
SuggestedRemedy Remove this sentence.	not set itself up to have its s	landards implici	ty modilied by others.	Proposed PROF		se REJECT.	Response Status W		
Proposed Response	Response Status W				specific		5		
PROPOSED ACCEPT.	P 542	1.20	# [22025	C/ 63 Artman, D		63.2.4.1.3	P 411 Texas Instrum	L 27 nents	# 809
C/ 63 SC 63.2.3 Artman, Doug	P 542 Texas Instrum	L 36 nents	# <u>99025</u>	Comment		E OC-TC is r	Comment Status D not defined or referenced in I	Figure 63-2	
by an approved revision, standard here, and not le may come later. I believ standard if it exists, but r	should be removed: "Wher , the revision shall apply." V eaving the door wide open to re 802.3 should create a def not set itself up to have its s	Ve should be re o any other follo initive standard	ferencing a single w-on standards that and reference a specific	Proposed	r should ' Respon	appropriate	ely define this entity. Response Status W		
SuggestedRemedy Remove this sentence.					specific				
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 63 Artman, D	oug	63.2.4.1.3	P 543 Texas Instrum	L23 nents	# 99027
C/ 63 SC 63.2.4.1.1	P 411 Taura lasta	L 7	# 808	<i>Comment</i> The a		E OC-TC is r	Comment Status D not defined or referenced in I	Figure 63-2.	D1.0 #428
Artman, Doug	Texas Instrum	ients		Suggeste		•			
Comment Type E	Comment Status D nd STU-R are not defined pr	oviou oly					ely define this entity.		
SuggestedRemedy	in 310-K are not defined pr	eviousiy.		Proposed PROF	'	se REJECT.	Response Status W		
Editor should appropriat	ely define these acronyms o	r use more gen	eric terms.	Need	specific	remedy			
Proposed Response PROPOSED REJECT.	Response Status W			Neeu	Specific	remeuy			
Need specific remedy									

C/ 63 SC 63.2.4.2	P411	L 4748	# 810	C/ 63	SC 63.2.4.2		L 4344	# 99030		
Artman, Doug	Texas Instrume	ents		Artman, D	bug	Texas Instrum	ents			
Comment Type T	Comment Status D			Comment	Туре Т	Comment Status D		D1.0 #42		
increase the reach or ca	D allows the optional use of a pacity of a copper link" should should be adequately describ	d be modified to	take out the 4-wire	increa	se the reach or	PMD allows the optional use of a capacity of a copper link" shoul ure should be adequately descri	d be modified to	take out the 4-wire		
SuggestedRemedy				SuggestedRemedy						
Change sentence to "The a copper link."	e PMD allows the optional us	e of repeaters to	o increase the reach of		e sentence to per link."	"The PMD allows the optional us	se of repeaters to	o increase the reach of		
Proposed Response	Response Status W			Proposed	Response	Response Status W				
PROPOSED ACCEPT IN	N PRINCIPLE. The use of re	peater are not c	overed here.	PROP	OSED ACCEP	T IN PRINCIPLE. See 810				
C/ 63 SC 63.2.4.2	P 543	L 41	# 99028	C/ 63	SC 63.3.1.	2 P 412	L 3443	# 811		
Jackson, Stephen	Hatteras Netwo	orks		Artman, D	oug	Texas Instrum	ents			
Comment Type E	Comment Status D		D1.0 #404	Comment	Type TR	Comment Status D				
Data mode may use any	of several levels of TC.					ned in 802.3ah was to reference				
SuggestedRemedy					reach PHYs. This text is referring to "Enhanced SHDSL" or G.shdsl.bis which is a potential standard currently being discussed in other standards bodies. Although there are					
Strike last sentence in (c	:)			agree	ments in ITÚ-T	to support higher data rates in C	S.shdsl.bis, there	are no agreements or		
Proposed Response	Response Status W			how this is to be accomplished. We should keep our reference to what was G.shdsl, and potentially consider later revisions of G.shdsl in a subsequent						
PROPOSED ACCEPT.				EFM s	standard.					
C/ 63 SC 63.2.4.2	P 543	L 43	# 99029	Suggested	-					
Jackson, Stephen	Hatteras Netwo	orks				81 and reference to subclause oute in lines 37-43.	editor's note in lir	ne 34, and remove the		
Comment Type E	Comment Status D		D1.0 #402	Proposed	Response	Response Status W				
Since IEEE is creating its mode is not relevant to the second se	s own bonding (loop aggrega his standard.	tion) spec, the C	3991.2 PMD 4-wire	PROP	OSED ACCEP	T IN PRINCIPLE.				
SuggestedRemedy				This re	equires a vote i	n the STF.				
Strike sentence.										
Proposed Response PROPOSED REJECT.	Response Status W									
Covered by response to	comment 810									

Jackson, Stephen	P 544 Hatteras Netwo	L 32 orks	# 99031	C/ 63 SC 63.3.4 Artman, Doug	1.3 P 412 Texas Instru	L 54 ments	# 812
Comment Type E isn't the correct formula:	Comment Status D		D1.0 #405	Comment Type E There is a referenc	Comment Status D e to a non-existent subclause (6	3.2.1.2)	
2(n*64 + i*8) kbps				SuggestedRemedy Subclause editor sl	nould clarify the reference and w	hat is intended.	
? SuggestedRemedy verify				Proposed Response PROPOSED ACCE	Response Status W EPT IN PRINCIPLE.		
Proposed Response PROPOSED REJECT.	Response Status W			Change to 63.3.1.2		L 47	# 99033
Need specific remedy				Artman, Doug	Texas Instru		# <u>33033</u>
C/ 63 SC 63.3.1.2	P 544	L 3238	# 99032	Comment Type E There is a referenc	Comment Status D e to a non-existent section (63.2	1.2)	D1.0 #431
Artman, Doug Comment Type TR	Texas Instrum Comment Status D	ents	D1.0 #430	SuggestedRemedy			
standard currently being agreements in ITU-T to s how this is to be accomp EFM, G.shdsl, and poter	reach PHYs. This text is referring to "Enhanced SHDSL" or G.shdsl.bis which is a potential standard currently being discussed in other standards bodies. Although there are agreements in ITU-T to support higher data rates in G.shdsl.bis, there are no agreements on how this is to be accomplished. We should keep our reference to what was agreed to in EFM, G.shdsl, and potentially consider later revisions of G.shdsl in a subsequent revision of		Change to 63.2.1.2				
the EFM standard.				Cl 63 SC 63.3. ⁻ Jackson, Stephen	1.3 P 544 Hatteras Net	L 48 works	# 99034
Remove the value of 81	and reference to subclause diditor's note in lines 34-38.	editor's note in lir	es 32 and 33, and	Comment Type E 4 wire mode is out-	Comment Status D of-scope due to the 802.3ah bor	nding mechanism	D1.0 #406
	Boononoo Statura INI			SuggestedRemedy	•	Ū.	
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			strike comments			
Proposed Response PROPOSED ACCEPT II Duplicate of 811	,		# 813	strike comments Proposed Response	Response Status W		
Proposed Response PROPOSED ACCEPT II Duplicate of 811	N PRINCIPLE.	L 52 ents	# 813	strike comments Proposed Response	PT IN PRINCIPLE.		
Proposed Response PROPOSED ACCEPT II Duplicate of 811 C/ 63 SC 63.3.1.3 Artman, Doug Comment Type T	N PRINCIPLE.	ents		strike comments Proposed Response PROPOSED ACCE	PT IN PRINCIPLE.		
Proposed Response PROPOSED ACCEPT II Duplicate of 811 C/ 63 SC 63.3.1.3 Artman, Doug Comment Type T	N PRINCIPLE. P412 Texas Instrum Comment Status D	ents		strike comments Proposed Response PROPOSED ACCE	PT IN PRINCIPLE.		
Proposed Response PROPOSED ACCEPT II Duplicate of 811 Cl 63 SC 63.3.1.3 Artman, Doug Comment Type T This section should be re SuggestedRemedy	N PRINCIPLE. P412 Texas Instrum Comment Status D	ents		strike comments Proposed Response PROPOSED ACCE	PT IN PRINCIPLE.		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

			P802.3ah D	oraft 1.0 Co	mments				
C/ 63 SC 63.3.1.	3 P 544	L 4853	# 99035	C/ 63	SC 63.4.1.2	P 547548	L 52541	# 99037	
Artman, Doug	Texas Instrur	nents		Artman, D	Doug	Texas Instrum	ents		
Comment Type T This section should I SuggestedRemedy Remove this section	Comment Status D be removed as it refers to bond	ing which is cover	D1.0 #432 ed in another clause.	remo Suggeste	e are no agreemer	Comment Status D ats yet within ITU-T as to how to this. Previous agreements			
Proposed Response PROPOSED ACCEF	-			Proposed	I Response POSED ACCEPT.	Response Status W			
Covered by commer				Cove	red by comment 8	11			
Cl 63 SC 63.3.14 Frazier, Howard	I.4.1.2 P 491 Dominet Syst	L 29 tems	# 99036	C/ 63	SC 63.4.1.3.3	-	L 2931	# 815	
Comment Type E	Comment Status D		D1.0 #509	Artman, Doug Texas Instruments					
SuggestedRemedy Renumber subclaus Proposed Response PROPOSED ACCEF No longer relevant fo	or new draft.	nture.		agree Suggeste Remo Proposed PROI	note refers to a sta ements yet. We sh <i>dRemedy</i> ove this note. <i>I Response</i> POSED REJECT.	Comment Status D andard which does not yet exi- nould remove this note and ke Response Status W			
C/ 63 SC 63.4.1.	2 P 415 Texas Instrur	L 5054	# 814		red by comment 8				
Artman, Doug Comment Type TR	Comment Status D			C/ 63 Artman, E	SC 63.4.1.3.3 Doug	S P 548 Texas Instrum	L 2122 ents	# 99038	
	nents yet within ITU-T as to hown as to this. Previous agreements			agree	note refers to a sta	Comment Status D andard which does not yet exi- nould remove this note and ke			
Proposed Response	Response Status W			00	ove this note.				
PROPOSED ACCER	PT IN PRINCIPLE.			Proposed	l Response	Response Status W			
Covered by commer	t 811			_	POSED REJECT.				
				Cove	red by comment 8	15			

C/ 63 SC 63.4.8.1	P421 L3033 # 816	C/ 64A SC 64A P426 L19 # 566				
Artman, Doug	Texas Instruments	Dawe, Piers Agilent				
Comment Type TR	Comment Status D	Comment Type E Comment Status D				
and discussion in ITU-T	reements within 802.3ah to include an enhanced version of SHDSL, has not yet reached the point where agreements on expanding the ave been made. We should remove this note and keep our	This might be a good place to include some informative material on upgrade possibilities re using fibre outside plant. SuggestedRemedy				
SuggestedRemedy	as agreed earlier).	per comment				
Remove this note.		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
Proposed Response	Response Status W					
PROPOSED ACCEPT.		CI 64A SC 64A.2.1 P426 L6 # 565				
Covered by comment 8	13	Dawe, Piers Agilent				
		Comment Type TR Comment Status D				
C/ 63 SC 63.4.8.1 Artman, Doug	P 553 L 1719 # 99039 Texas Instruments D1.0 #435	The statement "EFM optical and copper links are specified to operate over a temperature range of (TBD)" is NOT the case; this is an informative annex. Trying to write one-size-fits-all temperature specs is a lost cause - temperatures vary with climate, with internal/external				
and discussion in ITU-T	reements within 802.3ah to include an enhanced version of SHDSL, has not yet reached the point where agreements on expanding the ave been made. We should remove this note and keep our	placing of equipment, with where the temperature is measured, with operator preferences for/against fans, We must stay out of this swamp. By defining spectral limits that allow seamless trade-off in the wavelength range/spectral width space we have much less need for tying ourselves to temperature limits.				
SuggestedRemedy		SuggestedRemedy				
Remove this note.		Write something fairly brief, informative, not too quantitative: Temperature coefficient of wavelength, FP & DFB				
Proposed Response PROPOSED ACCEPT.	Response Status W	Operating temperature window, DFB Reliability Fans				
Covered by comment 8	16	Climate?				
C/ 63 SC Table 63- Jackson, Stephen	Hatteras Networks	And let the market participants get on with their business. Specifically, replace the sentence quoted with "EFM optical and copper links may be required to operate over a wider temperature range than traditional campus-oriented Ethernet links."				
Comment Type E T1E1.4 has acted to ap	prove 32 TC-PAM and to study 64 and 128 TC-PAM; letter to this	Proposed Response Response Status W PROPOSED REJECT.				
effect sent to ITU-T SG						
SuggestedRemedy	this chart to reference expanded constellations.	The annex is intended to provide background to the assumptions made that yielded the spectral range.				