C/ 00 SC	Р	L	# 353	C/FM SC FM	P 1	L 30	# 134
NoName				Grow, Robert	RMG Consul	lting, KDPOF	
Comment Type E	Comment Status X			Comment Type E	Comment Status A		E
SuggestedRemedy					omments on P802.3cy snd P802 odifier of "Automotive Ethernet".		hould be using optical
Suggesteurreineuy				SuggestedRemedy			
Bronocod Boononoo	Deserves Status			Change "Automotiv	e Optical" to "Optical Automotiv	ve" here,	
Proposed Response	Response Status O			Response	Response Status C		
				ACCEPT.			
C/FM SC FM	P1	L 2	# 133	C/FM SC FM	P3	L6	# 135
Grow, Robert	RMG Consul	ting, KDPOF					# 155
Comment Type E	Comment Status A		EZ	Grow, Robert		lting, KDPOF	_
	1) typo "IEE"; 2) different gramm			Comment Type E	Comment Status A		E.
instead of "to"; 3) a	s is indicates we are likely to be	first amendment	to IEEE Std 802.3-	Add to Keywords.	Comment Status A		E.
instead of "to"; 3) a 20xx his does not a		first amendment	to IEEE Std 802.3-	Add to Keywords. SuggestedRemedy			E
instead of "to"; 3) a 20xx his does not a SuggestedRemedy	s is indicates we are likely to be gree with front matter introduction	first amendment on (nor current tim	to IEEE Std 802.3- nelines}.	Add to Keywords. SuggestedRemedy Add Automotive Eth	nernet to the list.		E
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE	s is indicates we are likely to be	first amendment on (nor current tim ed by [list to be po	to IEEE Std 802.3- nelines}. opulated during	Add to Keywords. SuggestedRemedy Add Automotive Eth Response			E.
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amended	first amendment on (nor current tim ed by [list to be po	to IEEE Std 802.3- nelines}. opulated during	Add to Keywords. SuggestedRemedy Add Automotive Eth	nernet to the list.		E.
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amenden]). Request update of draft temp	first amendment on (nor current tim ed by [list to be po	to IEEE Std 802.3- nelines}. opulated during	Add to Keywords. SuggestedRemedy Add Automotive Eth Response	nernet to the list.	L7	# <u>136</u>
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT.	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amend]). Request update of draft temp <i>Response Status</i> C	first amendment on (nor current tim ed by [list to be po lates ("of" instead	to IEEE Std 802.3- nelines}. opulated during d or "to").	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT.	nernet to the list. Response Status C	L 7 Iting, KDPOF	
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amended)). Request update of draft temp <i>Response Status</i> C <i>P</i> 1	first amendment on (nor current tim ed by [list to be po lates ("of" instead	to IEEE Std 802.3- nelines}. opulated during	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. CI FM SC FM	nernet to the list. Response Status C	-	
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amende)). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 RMG Consult	first amendment on (nor current tim ed by [list to be po lates ("of" instead	to IEEE Std 802.3- nelines}. opulated during d or "to"). # 132	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. CI FM SC FM Grow, Robert Comment Type E Obsolete note. Wh	nernet to the list. <i>Response Status</i> C <i>P</i> 4 RMG Consul <i>Comment Status</i> A ile the Roman and Arabic numb	Iting, KDPOF	# 1 <u>36</u> E described in this note
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amende]). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 RMG Consul <i>Comment Status</i> A	first amendment on (nor current tim ed by [list to be po lates ("of" instead	to IEEE Std 802.3- nelines}. opulated during d or "to").	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Obsolete note. Wh was once the style,	nernet to the list. <i>Response Status</i> C <i>P</i> 4 RMG Consul <i>Comment Status</i> A	Iting, KDPOF	# 1 <u>36</u> E described in this note
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Title does not agree	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amende]). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 RMG Consul <i>Comment Status</i> A	first amendment on (nor current tim ed by [list to be po lates ("of" instead	to IEEE Std 802.3- nelines}. opulated during d or "to"). # 132	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Obsolete note. Wh was once the style, SuggestedRemedy	hernet to the list. <i>Response Status</i> C <i>P</i> 4 RMG Consul <i>Comment Status</i> A ile the Roman and Arabic numb it is no longer the style (see 20)	Iting, KDPOF pering convention 20 IEEE Standard	# [<u>136</u> E described in this note ds Style Manual 11.1).
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Title does not agree SuggestedRemedy	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amended I). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 <i>RMG Consul</i> <i>Comment Status</i> A e with the PAR.	first amendment on (nor current tim ed by [list to be pr lates ("of" instead <i>L</i> 12 ting, KDPOF	to IEEE Std 802.3- nelines}. opulated during d or "to"). # 132 EZ	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Obsolete note. Wh was once the style, SuggestedRemedy Delete this Editor's	hernet to the list. Response Status C P4 RMG Consul Comment Status A hile the Roman and Arabic numb it is no longer the style (see 20) Note. Request update of 802.3	Iting, KDPOF pering convention 20 IEEE Standard	# [<u>136</u> E described in this note ds Style Manual 11.1).
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Title does not agree SuggestedRemedy	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amende]). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 RMG Consul <i>Comment Status</i> A	first amendment on (nor current tim ed by [list to be pr lates ("of" instead <i>L</i> 12 ting, KDPOF	to IEEE Std 802.3- nelines}. opulated during d or "to"). # 132 EZ	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. CI FM SC FM Grow, Robert Comment Type E Obsolete note. Wh was once the style, SuggestedRemedy Delete this Editor's FrameMaker to che	hernet to the list. Response Status C P4 RMG Consul Comment Status A ille the Roman and Arabic numb it is no longer the style (see 20) Note. Request update of 802.3 eck current template on the web	Iting, KDPOF pering convention 20 IEEE Standard	# [<u>136</u> E described in this note ds Style Manual 11.1).
instead of "to"; 3) a 20xx his does not a SuggestedRemedy (Amendment to IEE publication process Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Title does not agree SuggestedRemedy Replace with "Phys Optical	s is indicates we are likely to be gree with front matter introduction E Std 802.3TM-20xx as amended I). Request update of draft temp <i>Response Status</i> C <i>P</i> 1 <i>RMG Consul</i> <i>Comment Status</i> A e with the PAR.	first amendment on (nor current tim ed by [list to be po lates ("of" instead <i>L</i> 12 ting, KDPOF	to IEEE Std 802.3- nelines}. opulated during d or "to"). # 132 EZ	Add to Keywords. SuggestedRemedy Add Automotive Eth Response ACCEPT. C/ FM SC FM Grow, Robert Comment Type E Obsolete note. Wh was once the style, SuggestedRemedy Delete this Editor's	hernet to the list. Response Status C P4 RMG Consul Comment Status A hile the Roman and Arabic numb it is no longer the style (see 20) Note. Request update of 802.3	Iting, KDPOF pering convention 20 IEEE Standard	# [<u>136</u> E described in this note ds Style Manual 11.1).

C/ FM SC FM

D 1.0 Comment Report

CIFM SCF	=M	P 8	L 4	# 137	C/ FM	SC FM	P 11	L 40	# 140	
Grow, Robert		RMG Consu	Ilting, KDPOF		Grow, Ro	pert	RMG Consul	ting, KDPOF		
Comment Type	E Con	nment Status A			EZ Comment	Туре Е	Comment Status A			ΕZ
		ne 17 are perhaps m			Spons	or ballot is no	ow an obsolete term.			
		draft, and the list will ng at which WG ballo		y the voter list	Suggeste	lRemedy				
SuggestedRemedy					Chan	je "Sponsor b	pallot" to "SA ballot".			
	•	replacing the TBD a	at line 17 with an E	ditor's Note that the	Response		Response Status C			
	added after initia				ACCE	PT.				
Response	Resp	oonse Status C			C/ FM	SC FM	P11	L 43	# 141	
ACCEPT.					Grow, Ro	pert	RMG Consul	ting, KDPOF		
C/FM SCF	=M	P 8	L 8	# 138	Comment	Туре Е	Comment Status A	-		EZ
Grow, Robert		RMG Consu	Ilting, KDPOF		It is c	istomary to no	ot include complete year on any	unapproved/unpu	ublished standard	ı.
Comment Type	E Con	nment Status A			EZ Suggeste	IRemedy				
Old WG office	er list				Chan	je "2022" to "2	20XX" here as well as page 12 a	and lines 1 and 7.		
SuggestedRemedy	y				Response		Response Status C			
Delete line for	Pete and ", Pha	ase 2 from Jon's line.			ACCE	PT.				
Response	Resp	oonse Status C			C/ FM	SC FM	P11	L 45	# 143	
ACCEPT.									# 143	
C/FM SCF	=M	P 9	L 5	# 139	Grow, Ro		RMG Consul Comment Status A	ung, KDPOF		EZ
Grow, Robert			Ilting, KDPOF			51	ck draft has a self description.			L2
Comment Type	E Con	nment Status A	ining, rubi or		EZ Suggeste					
51	ere, line 28 and l				Ouggeoiet	2	cription is: This amendment inc	ludes changes to	IEEE Std 802 3-2	2018
SuggestedRemedy	V				and a	ds Clause 16	61 through Clause 163, Annex 1	20F, Annex 120G	6, and Annex 162	A
		ted by publication ed	litor during publica	ation preparation			D. This amendment includes Ph neters for 100 Gb/s, 200 Gb/s, a			acad
Lists and date		oonse Status C		c c) Gb/s signali				435U
	Pase					-				
Lists and dates Response ACCEPT.	Resp				Response		Response Status C			

C/ FM SC FM

D 1.0 Comment Report

C/FM S	SC FM	P 11	L 45	# 1	42
Grow, Robert		RMG Consul	ting, KDPOF		
Comment Type	e E	Comment Status A			EZ

As the editor's note implies actual amendment order and which amendments will be included in the next revision won't be very clear until early 2022. Mr. Law in early February proposed amendment numbers up to Amendment 17. P802.3cs (proposed Amendment 15) will very likely be an amendment to 802.3-2018. P802.3ck (proposed Amendment 16) is also expected to begin WG ballot in March (but with a longer timeline). P802.3cw (proposed Amendment 17), P802.3cx, and P802.3 db (no draft yet) all have timelines projecting completion about the same time as P802.3ck. So we could be anywhere from Amendment 1 to Amendment 6 based on February data. With this uncertainty, we probably should not assume amendment numbers because it might lead others to assume they have been assigned.

SuggestedRemedy

Either leave number blank on all amendments listed until they are assigned by WG leadership. Or only include the descriptions.

Response		Response Status	С		
ACCE	PT.				
C/ FM	SC FM	P1	2	/ 3	# 14

Grow, Robert	RMG Consulting, KDPOF	

Comment Type E Comment Status A

The current P802.3cx draft has a self description.

SuggestedRemedy

The P802.3cx/D0.99 description is: This amendment includes changes to IEEE Std 802.3-2018 and adds Clause 155 and Clause 156. This amendment adds 400 Gb/s Physical Layer specifications and management parameters for operation over DWDM systems with reaches of at least 80 km.

Response Response Status C

CI FM SC FM	P 12	L 3	# 145
Grow, Robert RMG Consulting, K			
Comment Type E	Comment Status A		EZ

The current draft does not have a self description.

SuggestedRemedy

Instead of a generic description indicate "P802.3cx/0.4 does not include a self description."

Response Status C

Response

ACCEPT.

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

C/ FM	SC FM	P 12	L 9	# 146	
Grow, Robert		RMG Consult	ing, KDPOF		
Comment Ty	vpe T	Comment Status A		EZ	

We need to add our own self description (projects that follow us can then incllude in their drafts).

SuggestedRemedy

This amendment includes changes to IEEE Std 802.3-20XX and adds Clause XXX (currentlly using 300). This amendment adds 2.5 Gb/s, 5 Gb/s, 10 Gb/s, 25 Gb/s and 50 Gb/s Physical Layer specifications and management parameters for optical automotive Ethernet.

Response	Response Status	С
ACCEPT.		

C/ FM	SC FM	P 13	L 26	# 147
Grow, Robert RMG Consulting,		ing, KDPOF		
Comment T	ype E	Comment Status A		EZ

The line wrap is messed up. I don't remember if this is a manual fix after table of contents generation or can be fixed to work automatically.

SuggestedRemedy

EΖ

Fix tabs to be about 1/4 inch per level, that might eliminate the wrap problem, investigate if there is an automatic way to fix line wrap..

Response ACCEPT.	Response Status C		
C/ FM SC FM	P 13	L 57	# 148
Grow, Robert	RMG Consulti	ng, KDPOF	
Comment Type E Something messed up	<i>Comment Status</i> A the footer in this file of the bo	ok.	EZ

SuggestedRemedy

F	ix Frame	Maker	TOC	file	footer	center	ing.

Response	Response Status	С
ACCEPT.		

C/ FM	Page 3 of 62
SC FM	15/05/2021 10:13:19

IEEE 802.cz Multi-Gia Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/↓ SC↓	Р	L	# 232		C/ 00 SC 0	P 1	L 0	# 131
Hayashi, Takehiro	HAT Lab., Inc.				Grow, Robert	RMG Co	onsulting, KDPOF	
Comment Type E	Comment Status A			EZ	Comment Type E	Comment Status A		E
					Incorrect TF name	in header, both project num	ber and TF name	
SuggestedRemedy					SuggestedRemedy			
						cz Multi-Gig Automotive Op		
Response	Response Status C				P802.3cz Multi-Gig lines 13 and 14.	abit Optical Automotive Eth	ernet Lask Force. Al	so correct on page 8
ACCEPT. Empty comme	ent				Response	Response Status C		
CI↓ SC↓	Р	L	# 229		ACCEPT.			
Hayashi, Takehiro	HAT Lab., Inc.				C/ 00 SC 0	P 16	L 21	# 315
Comment Type E	Comment Status A			EZ	Abbott. John	Corning		# 315
					Comment Type E	Comment Status A		PA
SuggestedRemedy						RZ. There seems to an in		
						AM2. At the beginning of cla		
	Response Status C					erchangeably. Clauses 11,: es and this is a glass optica		
esponse								
ACCEPT IN PRINCIPLE	1				o 1	re COPPER. Clause 115		
ACCEPT IN PRINCIPLE	. Empty comment		# 005		PAM2 and these a It might make sense	re COPPER. Clause 115 se for maintenance somewh	(POF) used PAM2 likere to explain they an	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE	P 37	L5	# 235		PAM2 and these a It might make sens not the same, ther	re COPPER. Clause 115 e for maintenance somewh n this clause 300 would be a	(POF) used PAM2 likere to explain they an	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE	. Empty comment P 37 HAT Lab., Inc.	L 5			PAM2 and these a It might make sens not the same, ther used. There might	re COPPER. Clause 115 se for maintenance somewh	(POF) used PAM2 likere to explain they an	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE 45 SC 0 Hayashi, Takehiro Comment Type E	P 37 HAT Lab., Inc. Comment Status R		# 235 shall stater	ments	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy	re COPPER. Clause 115 e for maintenance somewh n this clause 300 would be a	(POF) used PAM2 lik ere to explain they ar good place to explai	the copper clauses. e the same. If they are
C/ 45 SC 0 Hayashi, Takehiro Comment Type E If these sentences are re	. Empty comment P 37 HAT Lab., Inc.			nems	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N	re COPPER. Clause 115 te for maintenance somewh n this clause 300 would be a be an excellent reason. RZ or explain they are the s	(POF) used PAM2 lik ere to explain they ar a good place to explai	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE 2/ 45 SC 0 Hayashi, Takehiro Comment Type E If these sentences are re SuggestedRemedy	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be			nems	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response	re COPPER. Clause 115 te for maintenance somewh n this clause 300 would be a be an excellent reason.	(POF) used PAM2 lik ere to explain they ar a good place to explai	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Asyashi, Takehiro Comment Type E If these sentences are re SuggestedRemedy indicates ® shall indicate	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be			nents	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT.	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C	(POF) used PAM2 lik ere to explain they ar a good place to explai	ke the copper clauses. e the same. If they are n why PAM2 is being
ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Advashi, Takehiro Comment Type E If these sentences are re- SuggestedRemedy indicates ® shall indicate Response	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be <i>Response Status</i> C			nents	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response	re COPPER. Clause 115 te for maintenance somewh n this clause 300 would be a be an excellent reason. RZ or explain they are the s	(POF) used PAM2 lik ere to explain they ar a good place to explai	the copper clauses. e the same. If they are
ACCEPT IN PRINCIPLE 45 SC 0 Hayashi, Takehiro Comment Type E If these sentences are re- SuggestedRemedy indicates ® shall indicate Response	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be			nents	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT.	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C	(POF) used PAM2 lik ere to explain they ar a good place to explai came	the copper clauses. te the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE 45 SC 0 dayashi, Takehiro comment Type E If these sentences are re- suggestedRemedy indicates ® shall indicate cesponse REJECT. This is a descr	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be <i>Response Status</i> C			nents	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. CI 00 SC 0 Abbott, John Comment Type E	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 Corning <i>Comment Status</i> A	(POF) used PAM2 lik ere to explain they ar a good place to explai came <i>L</i> 20	ke the copper clauses. e the same. If they are n why PAM2 is being
ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Advantage of the second	P 37 P 37 HAT Lab., Inc. <i>Comment Status</i> R equirements, "shall" should be <i>Response Status</i> C ription, not a requirement	e used.	shall stater	nents	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 Corning <i>Comment Status</i> A	(POF) used PAM2 lik ere to explain they ar a good place to explai came <i>L</i> 20	the copper clauses. te the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE 45 SC 0 layashi, Takehiro <i>comment Type</i> E If these sentences are re- <i>uggestedRemedy</i> indicates ® shall indicate <i>response</i> REJECT. This is a descr 45 SC 0 layashi, Takehiro	P 37 P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37	e used.	shall stater		PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John Comment Type E change PAM2 to N SuggestedRemedy	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 Corning <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai came <i>L</i> 20	the copper clauses. e the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Accept a second structure Accept a second structure Accept a second structure Comment Type E Accept a second structure Accept a second s	P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37 HAT Lab., Inc.	e used. L 12	shall staten		PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John Comment Type E change PAM2 to N	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 Corning <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai came <i>L</i> 20	the copper clauses. e the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE 45 SC 0 Hayashi, Takehiro comment Type E If these sentences are re- fuggestedRemedy indicates ® shall indicate response REJECT. This is a descr 45 SC 0 Hayashi, Takehiro comment Type E If these sentences are re-	P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37 HAT Lab., Inc. Comment Status R	e used. L 12	shall staten	ments	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John Comment Type E change PAM2 to N SuggestedRemedy	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 Corning <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai same	the the copper clauses. te the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE 45 SC 0 Hayashi, Takehiro comment Type E If these sentences are re- fuggestedRemedy indicates ® shall indicate response REJECT. This is a descr 45 SC 0 Hayashi, Takehiro comment Type E If these sentences are re-	P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be	e used. L 12	shall staten	ments	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. CI 00 SC 0 Abbott, John Comment Type E change PAM2 to N SuggestedRemedy change PAM2 to N	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 <i>Corning</i> <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai same	the copper clauses. e the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE 45 SC 0 dayashi, Takehiro comment Type E If these sentences are re- fuggestedRemedy indicates ® shall indicate response REJECT. This is a descr 45 SC 0 dayashi, Takehiro comment Type E If these sentences are re- fuggestedRemedy indicates ® shall indicate	P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be	e used. L 12	shall staten	ments	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John Comment Type E change PAM2 to N SuggestedRemedy change PAM2 to N Response	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 <i>Corning</i> <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai same	the copper clauses. e the same. If they are n why PAM2 is being # <u>316</u>
ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Advantion of the second	P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be Response Status C ription, not a requirement P 37 HAT Lab., Inc. Comment Status R equirements, "shall" should be	e used. L 12	shall staten	ments	PAM2 and these a It might make sens not the same, ther used. There might SuggestedRemedy change PAM2 to N Response ACCEPT. C/ 00 SC 0 Abbott, John Comment Type E change PAM2 to N SuggestedRemedy change PAM2 to N Response	re COPPER. Clause 115 the for maintenance somewh in this clause 300 would be a be an excellent reason. RZ or explain they are the s <i>Response Status</i> C <i>P</i> 21 <i>Corning</i> <i>Comment Status</i> A RZ	(POF) used PAM2 lik ere to explain they ar a good place to explai same	the copper clauses. te the same. If they are n why PAM2 is being # <u>316</u>

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

Page 4 of 62 15/05/2021 10:13:19

D 1.0 Comment Report

C/00 SC 0	P 21	L 25	# 317		C/00 SC 0	P 22	L 4	# 321
Abbott, John Comment Type E	Corning Comment Status A			PAM	Abbott, John Comment Type E	Corning Comment Status A		PAI
change PAM2 to NRZ SuggestedRemedy change PAM2 to NRZ					change PAM2 to NRZ SuggestedRemedy change PAM2 to NRZ			
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C		
C/ 00 SC 0	P 21	L 30	# 318		C/ 00 SC 0	P 22	L 10	# 322
Abbott, John	Corning				Abbott, John	Corning		
Comment Type E change PAM2 to NRZ	Comment Status A			PAM	Comment Type E change PAM2 to NRZ	Comment Status A		PAN
SuggestedRemedy change PAM2 to NRZ					SuggestedRemedy change PAM2 to NRZ			
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C		
C/ 00 SC 0	P 21	L 47	# 319		C/ 00 SC 0	P 27	L 6	# 323
Abbott, John	Corning				Abbott, John	Corning		
Comment Type E change PAM2 to NRZ	Comment Status A			PAM	Comment Type E change PAM2 to NRZ	Comment Status A		PAN
SuggestedRemedy change PAM2 to NRZ					SuggestedRemedy change PAM2 to NRZ			
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C		
C/ 00 SC 0	P 21	L 53	# 320					
Abbott, John	Corning							
Comment Type E change PAM2 to NRZ	Comment Status A			PAM				
SuggestedRemedy change PAM2 to NRZ								
Response ACCEPT.	Response Status C							

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

CI 00 SC 0

D 1.0 Comment Report

C/ 00	SC 0	P71	L5	# 175	C/ 1	SC ·	1.4.52a	<i>P</i> 19	L 26	# 150
Grow. Ro		RMG Consulti	-		Grow, R			RMG Consult		
Comment Shoul	51	Comment Status A ditor's note something about 500	-	_	Z Commer	nt Type	E definition	Comment Status A s could be improved.	0 , -	optical fiber
adopt the TI <i>Response</i>	ASE-AU is incl red. All 50GBA F.	luded in specifications, sometim SE-AU specifications are TBD u <i>Response Status</i> C			Cha appl <i>Respons</i>	ication red	and at line	es 32, 38, 44, and 48: "optic " to "optical fiber for use in <i>Response Status</i> C		
ACCE					C/ 1	SC	1.4.333a	P 20	L 3	# 1
CI 00	SC O	P72	L 14	# 181	Pérez-A	randa, Ru	ıbén	KDPOF		
	<i>Type</i> E aps this is the p ag with could be	RMG Consulti Comment Status A lace where a generic term for th e grouped under a single acrony	e three different	<i>Terminolo</i> g xMII types we are	othe E.g.	uld it be m r -AU PH` BASE-R	Y. PCS is de	Comment Status A enient to use the term BASE fined in 1.4.150 because it is egisters and sublayers nami	s common to m	
define create xMII. <i>Response</i>	e xMIÍ in clause e a new acrony e	"generic Media Independent Int 300 refering to XGMII, 25GMII, m (e.g., auMII) for the same xMI <i>Response Status</i> C	or 50GMII. Alte I types we deal	rnately we could with, but I prefer using	Rep Respons ACC	e EPT.	GBASE-A	U with BASE-AU. <i>Response Status</i> C		
50GN		PLE. Define xMII in subclause 3	00.1.2 retering to	o XGMII, 25GMII, or	C/ 1 Pérez-A	· SC randa, Ru	1.4.333a	<i>Р</i> 20 КDPOF	L 3	# 2
C/ 1	SC 1.4	P 19	L 21	# 149	Commer		T	Comment Status A		BASE-U
Grow, Ro Comment	bert	RMG Consulti Comment Status A			We	should co	nsider if it	is appropriate the definition PCS and PMA. For example		S and PMA) for the
The w need WG b but it (waitin Suggestee Chang	vord "publicatio to update numl pallot. A revisio probably won't ng for SASB ap <i>dRemedy</i> ge note to: "Su	n" is generally reserved for IEEE bering for our balloting. The late on draft should be available 2 mo include multiple amendments to oproval before merging amendm ubclause, Table and Figure num	st timelines have onths prior to our 802.3-2018 in the ents into the rev bers will change	er approval. We will e us able to do this for projected WG ballot, he initial revision draft ision).	Suggest Add Respons ACC	edRemed definition se EPT IN F	ly of BASE- PRINCIPLE	U. See as an example 1.4.3 <i>Response Status</i> C E. In case that 50 Gbps donc PHY name accordingly	1000BASE-H.	
based		s expected that P802.3cz numbe 2.3 revision draft." Similarly upo on.								
Response ACCE		Response Status C								

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

C/ 1 SC **1.4.333a** Page 6 of 62 15/05/2021 10:13:19

D 1.0 Comment Report

C/ 30	SC 30.3.2.1	P 21	L 20	# 3	C/ 44 SC 4
	nda, Rubén	KDPOF			Grow, Robert
optical not tak	5, 5, 10 and 25 G PHYs and becau en). For 50 Gb/s,	Comment Status A b/s, NRZ should be used i/o use optical signal is non-retu there is no baseline adopte	rn to zero (value	es of zero or below are	A Comment Type Tracking base text. I've found sometimes on we might even
Suggested Replac	•	. Replace PAM-TBD with TE	BD.		"IEEE Std 802 the source revi
Response		Response Status C			SuggestedRemedy
ACCEI	PT.				For example, t 2020) as follow
C/ 30	SC 30.3.2.1	P 22	L 3	# 4	Response
Pérez-Arar	nda, Rubén	KDPOF			ACCEPT.
Comment	51	Comment Status A		PAN	1 C/ 44 SC 4
optical	PHYs and becau	b/s, NRZ should be used i/o use optical signal is non-retu , there is no baseline adopte	rn to zero (value	es of zero or below are	Grow, Robert Comment Type
•	•	. Replace PAM-TBD with TE	BD.		These PHY typ specifications. Clause 44 con
Response		Response Status C			SuggestedRemedy
ACCEI	SC 30.5.1.1.2	P 22	L 33	# 159	– 10 Gigabit Eth Media Indepen
Grow, Rob		RMG Consult			Response
Comment	Туре Е	Comment Status A		E	ACCEPT.
"tempo					C/44 SC 4
Suggested	•	All Trans de Castelana a la cadad la			Grow, Robert
	al tider" in the aivi	AUType definitions should b	e updated to ref	lect IBD specifications.	Comment Type
Response ACCEI	PT.	Response Status C			"Support opera tailoring the op
					SuggestedRemedy
					"Support opera similar text who applications or
					Response

C/ 44	SC	44.1.1	P 24	L 11	# 160	
Grow, Ro	bert		RMG Consult	ting, KDPOF		
Comment	Type	Е	Comment Status A			ΕZ

e text is difficult, and some reviewers will be checking for accuracy of base nd it helpful to note the source of base text on change instructions (and n insert instructions). Because we will be citing revision drafts when available, en do this for now identifying IEEE Std 802.3-2018 base text or, for example

2.3ch-2020" or "as last modified by P802.3xx/Dy.z" as we will want to indicate vision draft e.g., "P802.3/Dy.z" when we have one.

ly

this one would read: Change the first paragraph of 44.1.1 (IEEE Std 802.3chws:

Response ACCEP1	г.	Response Status C	;	
CI 44	SC 44.1.1	P 24	L 14	# 161
Grow, Rober	t	RMG C	onsulting, KDPOF	

т Comment Status A

pe lists are frequent in IEEE Std 802.3 but a pain for adding new . We occassionally try to get rid of these. This one is redundant with other ntent. Do future projects a favor and delete the list.

dy 1

hernet uses the IEEE 802.3 MAC sublayer, connected through a 10 Gigabit endent Interface (XGMII) to one of a number of 10 G b/s Physical Layers.

Response ACCE	PT.		Response Status C		
C/ 44	SC	44.1.2	P 24	L	# 151
Grow, Rob	ert		RMG Consult	ing, KDPOF	
Comment	Туре	Е	Comment Status A		optical fiber
			r optical fiber tailored for autor r for automotive applications.		ations." We aren't

dy

ration over optical fiber in automitive applications." Search for "tailor" to find here it isn't clear what is being tailored (specifications for automotive or the optical fiber).

Response Status C

PRINCIPLE. As for Replace "optical fiber tailored for automotive applications." per for use in automotive applications"

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 44	Page 7 of 62
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 44.1.2	15/05/2021 10:13:19
SORT ORDER: Clause, Subclause, page, line		

	IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comme	ents
--	---------------------------	------------------------------------------------------------------------------------------	------

D 1.0 Comment Report

C/ 44 S		_			0				
0,44 0	SC 44.1.2	P 24	L 23	# 162	C/ 44	SC 44.1.4.4	P 26	L 21	# <u>7</u>
Grow, Robert		RMG Consulti	ng, KDPOF		Pérez-Ara	anda, Rubén	KDPOF		
Comment Type	e E	Comment Status A		optical fiber	Comment	Туре Т	Comment Status A		E.
Change co	onsistent with	1.4 AU PHY type definitions.			Editor	note. PMA is alre	eady defined.		
SuggestedRem	nedy				Suggested	dRemedy			
		ration over optical fiber tailore		e applications" to	Repla	ce with "Dependir	ng on the PMD definition'	,	
	peration over	r optical fiber in automotive a	pplications".		Response	•	Response Status C		
Response		Response Status C			ACCE	EPT.			
		E. Replace "optical fiber tailon automotive applications"	red for automotiv	ve applications." by	C/ 44	SC 44.1.4.4	P 26	L 39	# 6
C/ 44 S	SC 44.1.3	P 25	L 44	# 5	Pérez-Ara	anda, Rubén	KDPOF		-
Pérez-Aranda,	, Rubén	KDPOF			Comment	Туре Т	Comment Status A		E
Comment Type	e T	Comment Status A		BASE-U	Clause	e 300 specified P	CS, PMA and PMD.		
• •			nation of 64R/	66B 8B/10B ata	Suggester	dRemedy			
Other PCS Following t	S name are p the filename	refixed to provide more inform criteria in perezaranda_3cz_0 ix for PCS and PMA sublayer)2c_1120_phyna		Suggested Repla	,	PCS & PMA with 10GBASE	-AU PCS/PMA/	PMD
Other PCS Following t to use a dis SuggestedRem	S name are pl the filename istinctive pref nedy	refixed to provide more inform criteria in perezaranda_3cz_0)2c_1120_phyna rs.	ame.pdf, it might useful	Repla Response	ce 10GBASE-AU	PCS & PMA with 10GBASE Response Status C	-AU PCS/PMA/	PMD
Other PCS Following t to use a dis SuggestedRem For 10 GB/	S name are pl the filename istinctive pref nedy	refixed to provide more inform criteria in perezaranda_3cz_0 ix for PCS and PMA sublayer lace PCS with BASE-U PCS)2c_1120_phyna rs.	ame.pdf, it might useful	Repla Response ACCE	ce 10GBASE-AU P EPT.	Response Status C		
Other PCS Following t to use a dis SuggestedRem For 10 GB/	S name are pr the filename istinctive pref <i>nedy</i> ASE-AU, rep	refixed to provide more inform criteria in perezaranda_3cz_0 ix for PCS and PMA sublayer)2c_1120_phyna rs.	ame.pdf, it might useful	Repla Response	ce 10GBASE-AU		E-AU PCS/PMA/	PMD # <u>8</u>
Other PCS Following t to use a dis SuggestedRem For 10 GB/ Response ACCEPT.	S name are pr the filename istinctive pref nedy ASE-AU, rep	refixed to provide more inform criteria in perezaranda_3cz_0 ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C	02c_1120_phyna s. and PMA with B	ame.pdf, it might useful	Replace Response ACCE C/ 44 Pérez-Ara	ce 10GBASE-AU P PT. SC 44.1.4.4 anda, Rubén	Response Status C P 27 KDPOF		# 8
Other PCS Following t to use a dis SuggestedRem For 10 GB, Response ACCEPT. Cl 44 S	S name are pr the filename istinctive pref <i>nedy</i> ASE-AU, rep	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26	02c_1120_phyna s. and PMA with B 	ame.pdf, it might useful	Repla Response ACCE CI 44 Pérez-Ara Comment	EPT. SC 44.1.4.4 anda, Rubén Type T	Response Status C		
Other PCS Following t to use a dis SuggestedRem For 10 GBJ Response ACCEPT. Cl 44 S Grow, Robert	S name are pr the filename istinctive pref nedy ASE-AU, rep SC 44.1.4.4	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26 RMG Consulti	02c_1120_phyna s. and PMA with B 	ame.pdf, it might useful ASE-U PMA. # 164	Repla Response ACCE CI 44 Pérez-Ara Comment	ce 10GBASE-AU P PT. SC 44.1.4.4 anda, Rubén	Response Status C P 27 KDPOF		# 8
Other PCS Following t to use a dis SuggestedRem For 10 GB/ Response ACCEPT. C/ 44 S Grow, Robert Comment Type	S name are pr the filename istinctive pref nedy ASE-AU, rep SC 44.1.4.4 e E	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26	02c_1120_phyna s. and PMA with B 	ame.pdf, it might useful	Repla Response ACCE CI 44 Pérez-Ara Comment Consis Suggested	ce 10GBASE-AU EPT. SC 44.1.4.4 anda, Rubén Type T stency dRemedy	Response Status C P 27 KDPOF Comment Status A	L 6	# <u>8</u> optical fibe
Other PCS Following t to use a dis SuggestedRem For 10 GB/ Response ACCEPT. Cl 44 S Grow, Robert Comment Type "convenient	S name are pr the filename istinctive pref <i>nedy</i> ASE-AU, rep SC 44.1.4.4 e E ntly"?	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26 RMG Consulti	02c_1120_phyna s. and PMA with B 	ame.pdf, it might useful ASE-U PMA. # 164	Repla Response ACCE Cl 44 Pérez-Ara Comment Consis Suggested Repla	ce 10GBASE-AU EPT. SC 44.1.4.4 anda, Rubén Type T stency dRemedy ice with: "upon 64	Response Status C P 27 KDPOF Comment Status A B/65B coding encapsulated	L 6	# <u>8</u> <i>optical fibe</i> non frames that are
Other PCS Following t to use a dis SuggestedRem For 10 GB/ Response ACCEPT. Cl 44 S Grow, Robert Comment Type "convenien SuggestedRem	S name are pr the filename istinctive pref nedy ASE-AU, rep SC 44.1.4.4 e E ntly"? nedy	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26 RMG Consulti <i>Comment Status</i> A)2c_1120_phyna s. and PMA with B <i>L</i> 21 ng, KDPOF	ame.pdf, it might useful ASE-U PMA. # 164 <i>EZ</i>	Repla Response ACCE Cl 44 Pérez-Ara Comment Consis Suggested Repla mappe	SC 44.1.4.4 SC 44.1.4.4 anda, Rubén <i>Type</i> T stency dRemedy ice with: "upon 64 ed to NRZ modula	Response Status C P 27 KDPOF Comment Status A B/65B coding encapsulated ation for transmission on mu	L 6	# <u>8</u> <i>optical fibe</i> non frames that are
Other PCS Following t to use a dis SuggestedRem For 10 GB/ Response ACCEPT. Cl 44 S Grow, Robert Comment Type "convenien SuggestedRem	S name are pr the filename istinctive pref nedy ASE-AU, rep SC 44.1.4.4 e E ntly"? nedy	refixed to provide more inform criteria in perezaranda_3cz_C ix for PCS and PMA sublayer lace PCS with BASE-U PCS <i>Response Status</i> C <i>P</i> 26 RMG Consulti)2c_1120_phyna s. and PMA with B <i>L</i> 21 ng, KDPOF	ame.pdf, it might useful ASE-U PMA. # 164 <i>EZ</i>	Response ACCE Cl 44 Pérez-Ara Comment Consis Suggested Repla mappo	SC 44.1.4.4 SC 44.1.4.4 anda, Rubén <i>Type</i> T stency d <i>Remedy</i> ice with: "upon 64 ed to NRZ modula	Response Status C P 27 KDPOF Comment Status A B/65B coding encapsulated	L 6 into Reed-Solon Itimode optical f	# <u>8</u> <i>optical fibe</i> non frames that are ïber."

C/ 44 SC 44.1.4.4

D 1.0 Comment Report

CI 44	SC Figure 44-1	P 25	L 37	# 163	CI 45	SC 45.2.1	P 29	L 9	# 10
Grow, Robert	t	RMG Consult	ing, KDPOF		Pérez-Arar	nda, Rubén	KDPOF		
Comment Typ	pe T	Comment Status A		BASE-U	Comment 7	Гуре Т	Comment Status A		BASE-
The other	r five architectura	l PCS sublayers have a n	ame, shouldn't w	ve?	Here B	ASE-AU is used	l i/o MultiGBASE-AU. A single	e term should be	e used across the draft.
SuggestedRe Add appr	•	our chosen PCS, possibly	/ 64B/65B RS PC	CS.	<i>Suggestedi</i> Do notl	-	SE-AU is replaced with BASE	-AU.	
Response	ŀ	Response Status C			Response		Response Status C		
ACCEPT	IN PRINCIPLE.	Proposal is to name as BA	ASE-U PCS. See	e #5	ACCEF	PT.			
C/ 45	SC 0	P 37	L 19	# 239	C/ 45	SC 45.2.1.6	P 28	L 43	# 199
Hayashi, Tak	ehiro	HAT Lab., Inc	.	••••••	Hayashi, T	akehiro	HAT Lab., Inc.		
Comment Typ If these s		<i>Comment Status</i> R uirements, "shall" should	be used.	shall statements	Comment 7 discrep	51	Comment Status A between description and table	45-7	E.
SuggestedRe indicates	emedy ® shall indicate				Suggestedl Chose	,	er of 1.7.6:0 or 1.7.5:0		
Response REJECT.		Response Status C otion, not a requirement			Response ACCEF	PT IN PRINCIPL	<i>Response Status</i> C E. Change the Bit(s) column o	content from 1.	7.5:0 to 1.7.6:0.
C/ 45	SC 45.2.1	P 28	L 19	# 9	C/ 45	SC 45.2.1.21	a P 28	L 50	# 200
Pérez-Aranda	a, Rubén	KDPOF			Hayashi, T	akehiro	HAT Lab., Inc.		
	be more conveni	Comment Status A ient to use the term BASE	-AU i/o MultiGBA	BASE-U ASE-AU. There is no	Comment 7 table 4	Гуре Е 5-103a is wrong	Comment Status A reference.		E
E.g. BAS		es 35, 48 led in 1.4.150 because it is isters and sublayers nami		ny PHYs. Using BASE-	Suggestedl 45-24a	-			
SuggestedRe Replace I	e <i>medy</i> MultiGBASE-AU	with BASE-AU.			Response ACCEF	PT.	Response Status C		
Response ACCEPT		Response Status C							

C/ 45 SC 45.2.1.21a

D 1.0 Comment Report

C/ 45 SC 45.	2.1.134a.1	P 29	L 49	# 201	C/ 45	SC 45.2.3	P 31	L 17	# 11
Hayashi, Takehiro		HAT Lab., Inc.			Pérez-Ara	nda, Rubén	KDPOF	=	
Comment Type E	Commen	t Status A		shall statements	Comment	Туре Т	Comment Status	4	OA
If these sentence	e are requirements,	, "shall" should be	used.				of 1000BASE-H has bee		
SuggestedRemedy							PHYs do not share the ASE-H OAM registers to		
vvnen these bits	are set to 0000, the	e mode of operation	on is 2.5GBASE-	-AU.	Suggested	Remedy			
	are set to 0000, the		on shall be 2.5Gl	BASE-AU.	should	avoid repeating	U OAM registers set. No g the full OAM specifica	tion of C/115. It shoul	d do a reference with
Response	Response	Status C					used in other places in 8		ge of avoiding repeating
described in Cla Add a shall state		bility register with t	he mode of oper		text in OAM Implie	C/45. However channel for BAS	, for consistency the sar E-H and BASE-U, due t	ne subclause should to the cross reference	be used for specifying
					Response		Response Status 0		
C/ 45 SC 45.	2.3	P 31	L 8	# 169	ACCE	PT. Option 1.			
Grow, Robert		RMG Consultir	ıg, KDPOF		C/ 45	SC 45.2.3	P 31	L 29	# 12
Comment Type E	Commen	t Status A		EZ	Pérez-Ara	nda. Rubén	KDPOF		
	ng to use "through"			ugh 1.525, not 1.541. ituity of the second	<i>Comment</i> They a	• ·	Comment Status / rs. BASE-U PCS xxx na		-BASE iate. Also in lines 30, 31
SuggestedRemedy					Suggested	Remedy			
"new rows for reg	gisters 1.523 throug	Jh 1.526			Repla	ce MultiGBASE	-AU with BASE-U.		
Response	Response	Status C			Response		Response Status	C	
ACCEPT.					ACCE	PT.			
					0		Dat	L 33	"
					C/ 45	SC 45.2.3	P 31	2 3 3	# 13
						SC 45.2.3 nda, Rubén	KDPOF		# 13
						nda, Rubén		:	# <u>13</u> Loopback and test mode
					Pérez-Ara Comment PCS s consis mode	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba	KDPOF Comment Status / PCS status 4 reg are no	a bt included in the tabl gin). PCS status 4 is p	Loopback and test mode e. The PCS status 3 is blaceholder for BER test
					Pérez-Ara Comment PCS s consis mode	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba required in othe	KDPOF Comment Status J PCS status 4 reg are no seline (remote link marg	a bt included in the tabl gin). PCS status 4 is p	Loopback and test mode e. The PCS status 3 is blaceholder for BER test
					Pérez-Ara Comment PCS s consis mode adopte	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba required in othe ed yet. <i>Remedy</i>	KDPOF Comment Status J PCS status 4 reg are no seline (remote link marg	a bt included in the tabl gin). PCS status 4 is p rs, although test mode	Loopback and test mode e. The PCS status 3 is blaceholder for BER test
					Pérez-Ara Comment PCS s consis mode adopte	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba required in othe ed yet. <i>Remedy</i> nese registers to	KDPOF Comment Status J PCS status 4 reg are no seline (remote link marg er automotive PHY layer the table for consistence	a bot included in the tabl gin). PCS status 4 is p rs, although test mode cy.	Loopback and test mode e. The PCS status 3 is blaceholder for BER test
					Pérez-Ara Comment PCS s consis mode adopt Suggested Add th Response	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba required in othe ed yet. <i>Remedy</i> nese registers to PT IN PRINCIP	KDPOF Comment Status A PCS status 4 reg are no seline (remote link marg er automotive PHY layer	tincluded in the tabl gin). PCS status 4 is p rs, although test mode cy.	Loopback and test mode e. The PCS status 3 is placeholder for BER test es have not been
					Pérez-Ara Comment PCS s consis mode adopt Suggested Add th Response ACCE	nda, Rubén <i>Type</i> T status 3 reg and stent with the ba required in othe ed yet. <i>Remedy</i> nese registers to PT IN PRINCIP	KDPOF Comment Status J PCS status 4 reg are no seline (remote link marg er automotive PHY layer the table for consistence Response Status	tincluded in the tabl gin). PCS status 4 is p rs, although test mode cy.	Loopback and test mode e. The PCS status 3 is placeholder for BER test es have not been

	IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments	
--	---------------------------	---------------------------------------------------------------------------------------------	--

D 1.0 Comment Report

C/ 45 SC 45.2.								
C/ 45 3C 45.2.	3 P 31	L 41	# 202	C/ 45	SC 45.2.3.5b	P 36	L14	# 226
Hayashi, Takehiro	HAT Lab., Inc	: <u>.</u>		Hayashi,	Takehiro	HAT Lab., Inc	.	
Comment Type E	Comment Status R		shall statements		Type E	Comment Status A		E
If these sentence a	are requirements, "shall" should be	e used.		Comp	earing to other nan	nes in the table, "local" may	be added.	
SuggestedRemedy Registers 3.500 th	rough 3.508 are used …			Suggeste EEE	dRemedy ability ® local EEE	ability		
↓ Registers 3.500 th	rough 3.508 shall be used …			Response		Response Status C		
Response	Response Status C			ACCE	PT.			
REJECT. Shall stated the register is just	atements are included in Clause 1 a description here.	15, and the proc	edure and contents of	C/ 45	SC 45.2.3.5b	P 36	L17	# 227
			# 000	Hayashi,		HAT Lab., Inc	C .	_
Cl 45 SC 45.2 . Hayashi, Takehiro	3 <i>P</i> 31 HAT Lab., Inc	L 45	# 203	Comment "LH =	51	Comment Status A not used in the table.		E
Comment Type E If these sentence a	Comment Status R are requirements, "shall" should be	e used.	shall statements	S <i>uggeste</i> delete	dRemedy e it from the foot no	ote.		
SuggestedRemedy The transmit regist	ers are used to			Response ACCE		Response Status C		
The transmit regist	ers shall be used to …			C/ 45	SC 45.2.3.47	P 35	L 51	# 16
Deenenee	Response Status C			Pérez-Ara	anda. Rubén	KDPOF		
Response	REJECT. Shall statements are included in Clause 115, and the procedure and contents of the register is just a description here.							
REJECT. Shall sta		15, and the proc	edure and contents of		<i>Type</i> T	Comment Status A	stent with the FI	EEE register.
REJECT. Shall sta	a description here.	15, and the proc		LPI re	51	Comment Status A not included. It is not consis	stent with the El	
REJECT. Shall sta the register is just Cl 45 SC 45.2.	a description here. 3.5b P 36	L12	# 225	LPI re	elated registers are bits.		stent with the El	
REJECT. Shall stathe register is justCl 45SC 45.2.Hayashi, TakehiroComment TypeE	a description here. 3.5b P 36 HAT Lab., Inc <i>Comment Status</i> A	L 12		LPI re enabl <i>Suggeste</i> Add L	e bits. PI bits. Tx Assert		generated, Tx L	EE ability and EEE
REJECT. Shall sta the register is justCl45SC45.2.Hayashi, TakehiroComment TypeE Comparing to othe	a description here. 3.5b P 36 HAT Lab., Inc	L 12	# 225	LPI re enabl <i>Suggeste</i> Add L	e bits. d <i>Remedy</i> PI bits. Tx Assert tion attending to s	not included. It is not consistent of the second se	generated, Tx L	EE ability and EEE
REJECT. Shall sta the register is just Cl 45 SC 45.2. Hayashi, Takehiro Comment Type E Comparing to othe SuggestedRemedy	a description here. 3.5b P 36 HAT Lab., Inc <i>Comment Status</i> A	L 12	# 225	LPI re enabl Suggeste Add L indica Response ACCE	e bits. dRemedy PI bits. Tx Assert tion attending to s	Pot included. It is not consist LPI received, Rx Assert LPI pecific LPI signaling in XGM	generated, Tx L III, 25GMII, etc. efined yet, howe	EE ability and EEE LPI indication, Rx LPI ever these registers are

C/ 45 SC 45.2.3.47b

D 1.0 Comment Report

C/ 45	SC 45.2.3.47b	P 36	L 5	# 17	C/ 45 SC 45.2.3.47b.7 P 37 L 3	# 231
Pérez-Ara	nda, Rubén	KDPOF			Hayashi, Takehiro HAT Lab., Inc.	
Comment Using	<i>Type</i> T BASE-H is confusing	Comment Status A g. Also in line 12		OAM	Comment Type E Comment Status R If these sentence are requirements, "shall" should be used.	shall statements
Suggested BASE-	<i>Remedy</i> U or BASE-H/U per	decision by TF.			SuggestedRemedy indicates ® shall indicate	
Response ACCE		Response Status C proposed for consistenc	y.		ResponseResponse StatusCREJECT. This is a description, not a requirement	
CI 45	SC 45.2.3.47b	P 37	L 1	# 18	C/ 45 SC 45.2.3.47b.7 P 37 L 4	# 234
Comment	nda, Rubén <i>Type</i> T BASE-H is confusing	KDPOF <i>Comment Status</i> A g. Also in line 16		OAM	Hayashi, Takehiro HAT Lab., Inc. Comment Type E Comment Status R If these sentences are requirements, "shall" should be used.	shall statements
Suggested BASE-	<i>Remedy</i> U or BASE-H/U per	decision by TF.			SuggestedRemedy indicates ® shall indicate	
Response ACCE	F PT. #See 17	Response Status C			Response Response Status C REJECT. This is a description, not a requirement	
C/ 45	SC 45.2.3.47b.1	P 36	L 22	# 228	C/ 45 SC 45.2.3.47b.8 P37 L11	# 236
Hayashi, T	akehiro	HAT Lab., Inc			Hayashi, Takehiro HAT Lab., Inc.	
Comment If these	51	Comment Status R irements, "shall" should b	e used.	shall statements	Comment Type E Comment Status R If these sentences are requirements, "shall" should be used.	shall statements
Suggested reflects	<i>Remedy</i> s ® shall reflect				SuggestedRemedy indicates ® shall indicate	
Response REJEC		Response Status C tion, not a requirement			ResponseResponse StatusCREJECT. This is a description, not a requirement	
C/ 45 Hayashi, T	SC 45.2.3.47b.6	<i>Р</i> 36 НАТ Lab., Inc	L 48	# 230	Cl 45 SC 45.2.3.47b.9 P 37 L 18 Hayashi, Takehiro HAT Lab., Inc. HAT Lab., Inc. HAT Lab., Inc.	# 238
Comment	Туре Е	Comment Status R irements, "shall" should b		shall statements	Comment Type E Comment Status R If these sentences are requirements, "shall" should be used.	shall statements
Suggested reflects	<i>Remedy</i> s ® shall reflect				SuggestedRemedy indicates ® shall indicate	
Response REJE(Response Status C tion, not a requirement			Response Response Status C REJECT. This is a description, not a requirement	

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

C/ 45 SC 45.2.3.47b.9 Page 12 of 62 15/05/2021 10:13:20

D 1.0 Comment Report

C/ 45 S	SC 45.2.3.47b.10	P 37	L 26	# 233	C/ 45	SC 45.2.3.47	7c.1	P 37	L 48	# 19
Hayashi, Take	ehiro	HAT Lab., Inc	C.		Pérez-Ara	anda, Rubén	ŀ	DPOF		
Comment Type	e E Comme	ent Status R		shall statements	Comment	Туре Т	Comment Sta	atus A		Cross reference
If these se	entence are requirement	s, "shall" should b	e used.							use same FP format
SuggestedRer indicates @	<i>medy</i> ® shall indicate				refere	hould), a reference ences to C/115 in ers of 1000BASE	C/45 just to the	ninimum for	OAM, in case of	
Response	Respons	se Status C			Suggeste	dRemedy				
REJECT.	This is a description, no	t a requirement			Repla	ace with a cross r	eference to C/30	0.		
Cl 45 S Hayashi, Take	SC 45.2.3.47b.10	<i>Р</i> 37 НАТ Lab., Ind	L 28	# 240	Response ACCE		Response Sta	tus C		
Comment Type		ent Status R		shall statements	C/ 45	SC 45.2.3.47	7d.1	P 38	L 13	# 242
If these se	entences are requiremer	nts, "shall" should	be used.		Hayashi,			IAT Lab., In	C.	
SuggestedRer indicates (<i>medy</i> ® shall indicate				Comment If the	<i>Type</i> E se sentences are	Comment Sta requirements, "s		be used.	shall statements
Response REJECT.	Respons This is a description, no	se Status C t a requirement			00	<i>dRemedy</i> t ® shall report				
C/ 45 S	SC 45.2.3.47c.1	P 37	L 47	# 241	Response	9	Response Sta	tus C		
Hayashi, Take	ehiro	HAT Lab., Inc	C		REJE	CT. This is a des	scription, not a re	quirement		
Comment Type		ent Status R		shall statements	C/ 45	SC 45.2.3.47		<i>P</i> 38 (DPOF	L 15	# 20
						anda, Rubén	r Comment Sta			Cross reference
SuggestedRer	® shall indicate				Comment	51			sion If finally we	use same FP format
		04-4				hould), a reference				
Response Response Status C REJECT. This is a description, not a requirement C						ences to C/115 in ers of 1000BASE				reusing same
						<i>dRemedy</i> ace with a cross re	eference to C/30	Э.		
					Response	9	Response Sta	tus C		

ACCEPT.

C/ 45 SC 45.2.3.47d.1

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/ 45	SC 45.2.3.50.	1 P 32	L 34	# 204	C/ 45 SC 45.2.3.50.3 P 32 L 50 # 207	
Hayashi, Ta	akehiro	HAT Lab., Ir	nc.		Hayashi, Takehiro HAT Lab., Inc.	
Comment T If these	51	<i>Comment Status</i> R quirements, "shall" should	be used.	shall statements	Comment Type E Comment Status R shall If these sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If the sentence are requirements, "shall" should be used. If t	statements
SuggestedF request	<i>Remedy</i> ts ® shall reques	t			SuggestedRemedy reflects ® shall reflect	
Response		Response Status C			Response Response Status C	
	CT. Shall stateme ister is just a des	ents are included in Clause cription here.	e 115, and the pro	cedure and contents of	REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here.	ontents of
C/ 45	SC 45.2.3.50.	1 <i>P</i> 32	L 35	# 205	C/ 45 SC 45.2.3.50.4 P 33 L 3 # 208	5
Hayashi, Ta	akehiro	HAT Lab., Ir	nc.		Hayashi, Takehiro HAT Lab., Inc.	
Comment T If these		<i>Comment Status</i> R quirements, "shall" should	be used.	shall statements	Comment Type E Comment Status R shall If these sentence are requirements, "shall" should be used. Shall Shall Shall	statements
SuggestedF Bit 3.50	,	ro by the 1000BASE-H bas	sed PHY to indica	te that …	SuggestedRemedy is used ® shall be used, is changed ® shall be changed	
Bit 3.50 ↓	00.15 is set to ze					
Bit 3.50 ↓	00.15 is set to ze	ro by the 1000BASE-H bas by the 1000BASE-H based <i>Response Status</i> C			is used ® shall be used, is changed ® shall be changed <i>Response Response Status</i> C REJECT. Shall statements are included in Clause 115, and the procedure and co	ontents of
Bit 3.50 ↓ Bit 3.50 <i>Response</i> REJEC	00.15 is set to ze	by the 1000BASE-H based Response Status C ents are included in Clause	d PHY shall indica	ate that	is used ® shall be used, is changed ® shall be changed Response Response Status C	
Bit 3.50 ↓ Bit 3.50 <i>Response</i> REJEC	00.15 is set to ze 00.15 set to zero CT. Shall stateme	by the 1000BASE-H based Response Status C ents are included in Clause cription here.	d PHY shall indica	ate that	is used ® shall be used, is changed ® shall be changed <i>Response</i> <i>Response</i> <i>REJECT.</i> Shall statements are included in Clause 115, and the procedure and co the register is just a description here.	
Bit 3.50 ↓ Bit 3.50 <i>Response</i> REJEC the regi	00.15 is set to zero 00.15 set to zero CT. Shall stateme ister is just a des SC 45.2.3.50 .	by the 1000BASE-H based Response Status C ents are included in Clause cription here.	d PHY shall indica e 115, and the pro <i>L</i> 45	ate that cedure and contents of	is used ® shall be used, is changed ® shall be changed Response Response Status C REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here. Cl 45 SC 45.2.3.50.4 P 33 L 4 # 200	
Bit 3.50 ↓ Bit 3.50 <i>Response</i> REJEC the regi	00.15 is set to zero 00.15 set to zero CT. Shall stateme ister is just a des SC 45.2.3.50. akehiro	by the 1000BASE-H based Response Status C ents are included in Clause cription here. 2 P 32	d PHY shall indica e 115, and the pro <i>L</i> 45	ate that cedure and contents of	is used ® shall be used, is changed ® shall be changed Response Response Status C REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here. CI 45 SC 45.2.3.50.4 P 33 L 4 # 209 Hayashi, Takehiro HAT Lab., Inc.)
Bit 3.50 ↓ Bit 3.50 <i>Response</i> REJEC the regi <i>Cl</i> 45 Hayashi, Ta <i>Comment T</i>	00.15 is set to zero 00.15 set to zero CT. Shall stateme ister is just a des SC 45.2.3.50. akehiro <i>Type</i> E	by the 1000BASE-H based <i>Response Status</i> C ents are included in Clause cription here. 2 <i>P</i> 32 HAT Lab., Ir	d PHY shall indica e 115, and the pro <i>L</i> 45 nc.	ate that cedure and contents of # 206	is used ® shall be used, is changed ® shall be changed Response Response Status C REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here. CI 45 SC 45.2.3.50.4 P 33 L 4 # 200 Hayashi, Takehiro HAT Lab., Inc. Comment Type E Comment Status A blacket () is not necessary SuggestedRemedy	EZ
Bit 3.50 ↓ Bit 3.50 Response REJEC the regi C/ 45 Hayashi, Ta Comment 7 If these Suggested	200.15 is set to zero 200.15 is set to zero 200.15 set to zero 200.1	by the 1000BASE-H based Response Status C ents are included in Clause cription here. 2 P 32 HAT Lab., Ir Comment Status R	d PHY shall indica e 115, and the pro <i>L</i> 45 nc.	ate that cedure and contents of # 206	is used ® shall be used, is changed ® shall be changed Response Response Status C REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here. Cl 45 SC 45.2.3.50.4 P 33 L 4 # 200 Hayashi, Takehiro HAT Lab., Inc. Comment Type E Comment Status A blacket () is not necessary	EZ
Bit 3.50 ↓ Bit 3.50 Response REJEC the regi C/ 45 Hayashi, Ta Comment 7 If these SuggestedF reflects Response	200.15 is set to zero 200.15 is set to zero 200.15 set to zero 200.1	by the 1000BASE-H based Response Status C ents are included in Clause cription here. 2 P 32 HAT Lab., Ir Comment Status R	d PHY shall indica e 115, and the pro- <i>L</i> 45 nc. be used.	ate that cedure and contents of # 206 shall statements	is used ® shall be used, is changed ® shall be changed Response Response Status C REJECT. Shall statements are included in Clause 115, and the procedure and co the register is just a description here. Cl 45 SC 45.2.3.50.4 P 33 L 4 # 200 Hayashi, Takehiro HAT Lab., Inc. Comment Type E Comment Status A blacket () is not necessary SuggestedRemedy Bit 3.500.12 when it accepts (simultaneously setting bit 3.500.15 to zero), a	EZ

C/ 45 SC 45.2.3.50.4

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/ 45	SC 45.2.3.50.	5 <i>P</i> 33	L 9	# 210	CI 45	SC 45.2.3.51	Pa	33	L 23	# 213
Hayashi, Ta	akehiro	HAT Lab., Inc.			Hayashi, ⊺	Takehiro	HAT	Lab., Inc.		
Comment T	Туре Е	Comment Status R		shall statements	Comment	Туре Е	Comment Status	R		shall statements
		quirements, "shall" should be	used.		The se	entence after "an	d" may be imcomple	ete.		
		'and" may be incomplete.			Suggested	lRemedy				
uggested contain	ns ® shall contai	1			registe	ers 3.510 through	3.517 the following	128 bits		
					↓ regist	ers 3.510 throug	n 3.517 shall contair	the following	128 bits	
register of	ers 3.501 through	3.508 (TXO_DATA1 through	the remaining 128 bits	Response	-	Response Status	-			
↓ register		3.508 (TXO_DATA1 through	TXO_DATA8)	shall contai the		CT. Shall statemo gister is just a de		Clause 115, ai	nd the proc	edure and contents of
esponse	ning 128 bits of	Response Status C			CI 45	SC 45.2.3.51	.1 P3	34	L 3	# 214
•	CT Shall stateme	nts are included in Clause 11	5 and the pro	cedure and contents of	Hayashi, ⊺	Takehiro	HAT	Lab., Inc.		
	jister is just a des		o, and the pro-		Comment	Туре Е	Comment Status	R		shall statements
45	SC 45.2.3.51	P 33	L21	# 211	If thes	e sentence are re	equirements, "shall"	should be use	d.	
ayashi, Ta		HAT Lab., Inc.			Suggested	lRemedy				
	Type E	Comment Status R		shall statements	sets ®	shalll set				
	51		used		Response		Response Status	С		
11 11056		quirements, "shall" should be	uscu.				•			
		quirements, snall should be	useu.		REJE			Clause 115, ai	nd the proc	edure and contents of
uggestedl		quirements, snail should be	useu.		REJE	gister is just a de	scription here.	Clause 115, ai	nd the proc	
uggestedl store ®	Remedy	Response Status C			REJE		scription here.	34	nd the proc	# 215
uggestedf store ® esponse	Remedy Shall sore			cedure and contents of	REJE the rec C/ 45 Hayashi, T	gister is just a de SC 45.2.3.51 Takehiro	scription here.			
iggested store ® sponse REJEC	Remedy Shall sore	Response Status C nts are included in Clause 11		cedure and contents of	REJE the reg C/ 45 Hayashi, T Comment	gister is just a de SC 45.2.3.51 Fakehiro <i>Type</i> E	scription here. .1 P3 HAT Comment Status	34 Lab., Inc.	L 4	
uggestedł store ® esponse REJEC	Remedy 9 shall sore CT. Shall stateme	Response Status C nts are included in Clause 11		cedure and contents of	REJEC the reg C/ 45 Hayashi, T Comment If thes	gister is just a de SC 45.2.3.51 Fakehiro <i>Type</i> E e sentence are re	scription here. .1 P3 HAT	34 Lab., Inc.	L 4	# 215
uggestedf store ® esponse REJEC the regi	Remedy Shall sore CT. Shall stateme gister is just a des SC 45.2.3.51	<i>Response Status</i> C nts are included in Clause 11 cription here.	5, and the pro		CI 45 Hayashi, T Comment If thes	gister is just a de SC 45.2.3.51 Fakehiro <i>Type</i> E e sentence are re <i>IRemedy</i>	scription here. .1 P3 HAT Comment Status	34 Lab., Inc.	L 4	# 215
uggestedf store ® esponse REJEC the reg 45 ayashi, Ta	Remedy shall sore CT. Shall stateme jister is just a des SC 45.2.3.51 Gakehiro	Response Status C nts are included in Clause 11 cription here. P 33	5, and the pro		Cl 45 Hayashi, T Comment If thes Suggested sets ©	gister is just a de SC 45.2.3.51 Fakehiro <i>Type</i> E e sentence are re	scription here. .1 P3 HAT <i>Comment Status</i> equirements, "shall"	34 Lab., Inc. R should be use	L 4	# 215
uggestedf store ® esponse REJEC the reg 45 ayashi, Ta omment 7	Remedy Shall sore CT. Shall stateme jister is just a des SC 45.2.3.51 Fakehiro Type E	Response Status C nts are included in Clause 11 cription here. P 33 HAT Lab., Inc.	5, and the pro	# 212	C/ 45 Hayashi, T Comment If thes Suggested sets @ Response	gister is just a de SC 45.2.3.51 Fakehiro Type E e sentence are re IRemedy o shalll set	scription here. .1 P3 HAT <i>Comment Status</i> equirements, "shall" <i>Response Status</i>	34 Lab., Inc. R should be use C	L 4 d.	# 215 shall statement
aggestedf store ® esponse REJEC the regi 45 ayashi, Ta omment 7 If these	Remedy Shall sore CT. Shall stateme gister is just a des SC 45.2.3.51 Gakehiro Type E e sentence are re	Response Status C nts are included in Clause 11 cription here. P 33 HAT Lab., Inc. Comment Status R	5, and the pro	# 212	REJEC the reg C/ 45 Hayashi, T Comment If thes Suggested sets @ Response REJEC	gister is just a de SC 45.2.3.51 Fakehiro Type E e sentence are re IRemedy o shalll set CT. Shall stateme	scription here. .1 P3 HAT <i>Comment Status</i> equirements, "shall" <i>Response Status</i> ents are included in	34 Lab., Inc. R should be use C	L 4 d.	# 215
uggestedf store ® esponse REJEC the regi 45 ayashi, Ta omment 7 If these uggestedf	Remedy Shall sore CT. Shall stateme gister is just a des SC 45.2.3.51 Gakehiro Type E e sentence are re	Response Status C nts are included in Clause 11 cription here. P 33 HAT Lab., Inc. <i>Comment Status</i> R quirements, "shall" should be	5, and the pro	# 212	REJEC the reg C/ 45 Hayashi, T Comment If thes Suggested sets @ Response REJEC	gister is just a de SC 45.2.3.51 Fakehiro Type E e sentence are re IRemedy o shalll set	scription here. .1 P3 HAT <i>Comment Status</i> equirements, "shall" <i>Response Status</i> ents are included in	34 Lab., Inc. R should be use C	L 4 d.	# 215 shall statement
uggestedf store ® esponse REJEC the regi 4 45 ayashi, Ta omment 7 If these uggestedf	Remedy shall sore CT. Shall stateme jister is just a des SC 45.2.3.51 Skehiro Type E e sentence are re Remedy	Response Status C nts are included in Clause 11 cription here. P 33 HAT Lab., Inc. <i>Comment Status</i> R quirements, "shall" should be	5, and the pro	# 212	REJEC the reg C/ 45 Hayashi, T Comment If thes Suggested sets @ Response REJEC	gister is just a de SC 45.2.3.51 Fakehiro Type E e sentence are re IRemedy o shalll set CT. Shall stateme	scription here. .1 P3 HAT <i>Comment Status</i> equirements, "shall" <i>Response Status</i> ents are included in	34 Lab., Inc. R should be use C	L 4 d.	# 215 shall statement

C/ 45 SC 45.2.3.51.1 Page 15 of 62 15/05/2021 10:13:20

C/ 45 SC 45.2.	3.51.1 <i>I</i>	▷ 34	L 6	# 216	C/ 45	SC 45.2.3.5	1.3	P 34	L16	# 219
Hayashi, Takehiro	HA	AT Lab., Inc.			Hayashi, ⁻	Takehiro		HAT Lab., Inc).	
Comment Type E If these sentence a	<i>Comment Stat</i> re requirements, "sha		ised.	shall statements	<i>Comment</i> The s	<i>Type</i> E entence after "a		nt Status R mcomplete.		shall statements
SuggestedRemedy does not update ®	shalll not update				Suggested registe	<i>dRemedy</i> ers 3.510 throug	ıh 3.517			
Response	Response Stati		and the proc	edure and contents of	Ļ	ters 3.510 throu		Il contain		
the register is just			, and the proc		Response			e Status C		
C/ 45 SC 45.2.	3.51.2 <i>l</i>	₽34	L 11	# 217		CT. Shall stater egister is just a d			15, and the proce	edure and contents of
Hayashi, Takehiro	HA	AT Lab., Inc.			C/ 45	SC 45.2.3.5	6a	P 34	L 25	# 220
Comment Type E	Comment Stat			shall statements	Hayashi, ⁻	Takehiro		HAT Lab., Inc	.	
if these sentence a	re requirements, "shal	ll" should be ι	ised.		Comment	Туре Е	Comme	nt Status R		shall statements
SuggestedRemedy					If thes	se sentence are	requirements	s, "shall" should b	e used.	
changes ® shall cl	ange				Suggested	dRemedy				
Response	Response Statu				is cho	osen ® shall be o	chosen			
REJECT. Shall sta the register is just		n Clause 115	, and the proc	edure and contents of	Response REJE	e CT. This is a de		e Status C		
CI 45 SC 45.2.	3.51.3 /	□ 34	L 16	# 218			• •	•		
Hayashi, Takehiro	HA	AT Lab., Inc.			C/ 45	SC 45.2.3.5	6a	P 34	L 43	# 14
Comment Type E	Comment Stat			shall statements		anda, Rubén		KDPOF		
if these sentence a SuggestedRemedy	if these sentence are requirements, "shall" should be used.					<i>Type</i> T BASE-H is con		nt Status A		OAN
contains ® shall co	ntain				Suggested	dRemedy				
Response	Response Statu	IS C			BASE	E-U or BASE-H/U	J per decisio	n by TF.		
	· · · · · · · · · · · · · · · · · · ·		and the proc	edure and contents of	Response	•	Respons	e Status C		

the register is just a description here.

ACCEPT. #See 17

C/ **45** SC **45.2.3.56a**

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/ 45 SC 45.2.3.	56a.1 <i>P</i> 35	L 4	# 221	C/ 45 SC 45.2.3.56	6a.4 P 35	L 25	# 224	
Hayashi, Takehiro	HAT Lab., In	C.		Hayashi, Takehiro	HAT Lab., Inc.			
Comment Type E "test mode" is not fou	Comment Status A Ind in table 45-226a		Loopback and test modes	Comment Type E add the table reference	Comment Status A e of "bit 3.524.0"			EZ
SuggestedRemedy add explanation of "te	est mode" in table 45-226a			SuggestedRemedy (bit 3.524.0 = 0, see ta	ble 45-226b)			
Response	Response Status C			Response	Response Status C			
	PLE. Add placeholder for BER pecification of test modes.	test mode.	Add a ToDo task in the	ACCEPT.				
C/ 45 SC 45.2.3.	56a.3 P 35	L 13	# 15	C/ 45 SC 45.5.3.7	P 40	L 32	# 244	
Pérez-Aranda, Rubén	KDPOF			Hayashi, Takehiro	HAT Lab., Inc.			
Comment Type T Using BASE-H is cor	Comment Status A		OAM	<i>Comment Type</i> E "0" is just a number, a	Comment Status A n article is not used.			EZ
SuggestedRemedy	-			SuggestedRemedy delete "a"				
Response ACCEPT. See #17	U per decision by TF. <i>Response Status</i> C			Response ACCEPT.	Response Status C			
· · · · · ·			"	C/ 45 SC 45.5.3.7	P 40	L 32	# 243	
C/ 45 SC 45.2.3.		L 15	# 222	Hayashi, Takehiro	HAT Lab., Inc.			
Hayashi, Takehiro	HAT Lab., In	C.		Comment Type E	Comment Status A			ΕZ
Comment Type E	Comment Status R	e used	shall statements	"1" is just a number, a	n article is not used.			
	requirements, "shall" should b	e used.		SuggestedRemedy				
SuggestedRemedy controls ® shall control				delete "a"				
Response	Response Status C			Response ACCEPT.	Response Status C			
	escription, not a requirement			C/ 45 SC 45.5.3.7	P 40	L 36	# 172	p
C/ 45 SC 45.2.3.	56a.3 P 35	L 16	# 223	Grow, Robert	RMG Consulting	a, KDPOF		
Hayashi, Takehiro	HAT Lab., In	С.		Comment Type E	Comment Status A	· · ·		ΕZ
Comment Type E add the table referen	Comment Status A ce of "bit 3.524.1"		EZ	Value/Comment colum	n does not include strikethroug	h of "1000'.		
SuggestedRemedy				SuggestedRemedy	51 9			
(bit 3.524.1 = 0, see	able 45-226b)			Strike through. Also p				
(Response	Response Status C			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/45Page 17 of 62COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC45.5.3.715/05/2021 10:13:20SORT ORDER: Clause, Subclause, page, line

D 1.0 Comment Report

C/ 45 SC 45.5.3.7	P 40	L 36	# 245		Cl 45	SC 45.5.3.7	P 41	L 38	# 249	
layashi, Takehiro	HAT Lab., Inc.				Hayashi, T	akehiro	HAT Lab.,	Inc.		
Comment Type E 1000BASE-H may typ	Comment Status A			EZ	Comment 7 "1" is ju	51	Comment Status A n article is not used.			E
SuggestedRemedy 1000BASE-H ® BASE	Е-Н				<i>Suggestedl</i> delete	•				
Response ACCEPT.	Response Status C				Response ACCEF	PT.	Response Status C			
C/ 45 SC 45.5.3.7	P 41	L 19	# 246		C/ 45	SC 45.5.3.7	P 41	L 41	# 250	
Hayashi, Takehiro	HAT Lab., Inc.				Hayashi, T	akehiro	HAT Lab.,	Inc.		
Comment Type E Table 45-226b is a wr	<i>Comment Status</i> A ong reference.			EZ	Comment 7 "0" is ju	51	Comment Status A n article is not used.			E
SuggestedRemedy Table 45-226a					<i>Suggestedi</i> delete	•				
Response ACCEPT.	Response Status C				Response ACCEF	PT.	Response Status C			
C/ 45 SC 45.5.3.7	P 41	L 27	# 247		C/ 45	SC Table 45	i-176 P 31	L17	# 171	
Hayashi, Takehiro	HAT Lab., Inc.				Grow, Rob	ert	RMG Cons	sulting, KDPOF		
Comment Type E	Comment Status A			ΕZ	Comment 7	Туре Т	Comment Status R			OA
"1" is just a number, a	n article is not used.				Though	n the changes fo	or "1000BASE-H" to "BASE	E-H" here and follo	wing may be	
SuggestedRemedy						-	could be challenged as be	eing out of scope fo	or our PAR.	
delete "a"					Suggested					
Response ACCEPT.	Response Status C				adoptic	on of 1000BASE he changes via	y determine if the changes E-H OAM for the AU PHY ty a maintenance request, or	ypes. Other option	s to consider inclu	ude
C/ 45 SC 45.5.3.7	P 41	L 30	# 248		Response		Response Status C			
Hayashi, Takehiro	HAT Lab., Inc.					CT. See #11 and	•			
Comment Type E "0" is just a number, a	Comment Status A n article is not used.			EZ						
SuggestedRemedy delete "a"										
Response ACCEPT.	Response Status C									

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

C/ 45 SC Table 45-176

D 1.0 Comment Report

C/ 45 SC Table 45-176	P 31 L 30	# 170	C/ 45	SC Table	45-7 P2	29 L 7	# 167
Grow, Robert	RMG Consulting, KDP	OF	Grow, R	obert	RMO	G Consulting, KDPOF	
Comment Type E Comm	ent Status A		EZ Commer	nt Type T	Comment Status	A	EZ
With the combined change and ir rows.	nsert instruction, I think we s	hould underline the inserted	valu	es are defined l	brobably won't look like by other amdments in p bes is also defined by F	orogress. More impo	Most of the reserved rtantly, the value (1011110)
SuggestedRemedy				edRemedy	bes is also defined by F	002.3CK/D1.4.	
Underline the rows for 1.523 thro	ugh 1.526		00	,	time if D000 2ek will b	a included in the revi	sion, but .3ck started to use
ACCEPT.	se Status C	4 105	the v avai — so w	value first, so we lable below the vill be in the revis	e should change our va values specified by P8(sion draft), or we can u	lue. There are a few)2.3cp (e.g.,100011x se some of the reser	,
C/ 45 SC Table 45-3	P 28 L 20				.e., 1111001 or numeri		
Grow, Robert	RMG Consulting, KDP0		Respons		Response Status	С	
··· //··	ent Status A		EZ ACC	EPT.			
Register 1.26 is defined by IEEE	Std 802.3cn.		C/ 45	SC Table	45-7 P2	29 L 12	# 168
SuggestedRemedy			Grow, R	obert	RMO	Consulting, KDPOF	
Remove the reserved row.			Commer	nt Type T	Comment Status	: A	EZ
Response Respon	se Status C		In IE	EE Std 802.3-2	018, there is a footnote	c for 1.900 BASE-H	l.
ACCEPT.			Suaaest	edRemedy			
C/ 45 SC Table 45-3	P 28 L 32	# 166			d (also on line 9).		
Grow, Robert	RMG Consulting, KDP	OF	Respons	se	Response Status	с	
Comment Type T Comm	ent Status A		EZ ACC	EPT.			
Register 1.1000 through 1.1002 a	are used by IEEE Std 802.3c	a.		00 405 4	4		# 054
SuggestedRemedy			C/ 105	SC 105.1.			# 251
I suggest going to the 1.901-1.99	9 reserved block (1.900 is B	ASE-H. use IEEE Std		, Takehiro		Lab., Inc.	
802.3ca for base text where rese active amendment projects in this	rved range is changed). I die	dn't find any other approved		51	Comment Status e a single fiber structure		optical fiber
"MultiGBASE-AU PMA/PMD con			Sugaest	edRemedy			
footnote d) to Table 45-7 also new will need to change the subclause			66	,	air of multimode optica	l fiber	
Bit(s) column at p. 30, I. 5 and I.			Respons	se	Response Status	С	

Response

Response Status C

ACCEPT.

ACCEPT IN PRINCIPLE.

Replace with "25 Gb/s PHY using BASE-U encoding over optical fiber for use in automotive applications (see Clause 166).". See #150

C/ 105 SC 105.1.1 Page 19 of 62 15/05/2021 10:13:20

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

	5.1.3	P 45	L 34	# 21	C/ 105		105.1.3	P 46	L 46	# 22	
Pérez-Aranda, Rub	én	KDPOF			Pérez-Ara	anda, Ru	ıbén	KDPOF			
Comment Type	E	Comment Status A		optical fiber	Comment	Туре	т	Comment Status	A Contraction of the second seco		BASE-U
Too many detai	ls (RS siz	e, GF,) for an overview i	n a generic claus	e.	Nome	enclature	of figure	105-1 is not consisten	t with Figure 44-1.		
SuggestedRemedy					Suggested		•				
		Physical Layer devices us			Repla	ce 25GE	BASE-AU	PCS with BASE-U PC	S. Replace PMA with	BASE-U PMA.	
Dependent (PCS)	, Physical D) sublav	Medium Attachment (PMA er, for transmitting 25 Gb/s	Ethernet over a r	nysical Medium nultimode optical	Response	•		Response Status	;		
fiber tailored for	automotiv	ve applications. 25GBASE-	AU uses 64B/65E	3 coding	ACCE	PT IN P	RINCIPL	.E. See #5			
encapsulated in transmission on		Solomon frames that are ma	apped to NRZ mo	dulation for	C/ 105	SC /	105.1.3	P 47	L 27	# 23	
Response	•	Response Status C			Pérez-Ara			KDPOF			
ACCEPT IN PR					Comment	,		Comment Status			
"25GBASE-AU	represent	s Physical Layer devices us				• •		ready in use for referrir		n generate conf	usion
		Medium Attachment (PMA er, for transmitting 25 Gb/s						BASE-T?)	.g ether eladood. it da	generate com	
automotive appl	lications. 2	25GBASE-AU uses 64B/65	B coding encaps	ulated into Reed-	Suggested	dRemed	y				
		mapped to NRZ modulatior						PHY using 64B/65B a			
C/ 105 SC 10	5.1.3	P 45	L 35	# 152	modul 300)."		er multim	node optical fiber tailore	ed for automotive app	lications (see Cl	ause
Grow, Robert		RMG Consulti	ng, KDPOF		Response			Response Status			
Comment Type	E	Comment Status R	0.	optical fiber	REJE				•		
		ved for consistency with re- n optical fiber" implies a sir			RS-FE	EC is de		an acronym refering to pecific Reed-Solomon		ard Error Correct	tion, and
tailored is also a	ambiguous	s (i.e., PHY or the fiber).			C/ 105	SC '	105.3.2	P 48	L 48	# 24	
SuggestedRemedy					Pérez-Ara			KDPOF			
		full word) and replace if point is case, with suitable addion			Comment	,		Comment Status			Details
read: "Each se	quence of	80 PDBs is followed by a 2	0-bit PHD block.	"		•••		with PMA and PMD.		ed with C/300	Details
Response		Response Status C			accord		omparoe		The root to be update		
		edy seems to be unrelated	with the commer	nt. See comment #191	Suggested	dRemed	y				
					Repla	ce text v	vith: "The	25GBASE-AU PCS is	specified in Clause 3	00."	
C/ 105 SC 10	15.1.3	P 45	L 37	# 324	Response	•		Response Status	;		
Abbott, John		Corning			ACCE	EPT IN P	RINCIPL				
Comment Type change PAM2 to	E o NRZ	Comment Status A		PAM	Repla	ce text v	vith: "The	25GBASE-AU PCS is	specified in Clause 1	66."	
SuggestedRemedy change PAM2 to	o NRZ										
Response		Response Status C									
ACCEPT.											
	•	ER/editorial required GR/g	•		•	- 7 /1, 441-			C/ 105	0	0 of 62
SORT ORDER: Cla		atched A/accepted R/rejec lause, page, line	IEU RESPONS	STATUS: U/open W/W	illen C/Closed	u Z/WITh	urawn	·	SC 105.3.2	15/05/2	2021 10:13
	,										

D 1.0 Comment Report

C/ 105	SC Table 1	05-1 <i>P</i> 47	L 27	# 153
Grow, Rob	pert	RMG Consu	lting, KDPOF	
Comment	Туре Е	Comment Status A		optical fiber
Definit	ions. The wore	nproved for consistency with r ds "an optical fiber" implies a s juous (i.e., PHY or the fiber).		
Suggested	Remedy			
		cal fiber tailored for automotiv use in automotive applicatior		
Response		Response Status C		
		PLE. Replace "optical fiber tail n automotive applications"	ored for automoti	ve applications." by
C/ 105	SC Table 1	05-2 P 48	L 20	# 173
Grow, Rob	pert	RMG Consu	lting, KDPOF	
Comment "25 BA	<i>Type</i> E ASE-AU" is mis	Comment Status A sing the "G".		EZ
Suggested 25GB/	IRemedy ASE-AU			
Response ACCE	PT.	Response Status C		
C/ 115	SC 115	P 51	L 1	# 25
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status A		OAM
	e it might requi	void modifications in clause 1 ² re more repeated text in claus		
Suggested Avoid	•	equest for C/115.		
Response ACCE		Response Status C		

C/ 115	SC 115.3.4	P 51	L 10	# 128
Wienckov	vski, Natalie	General Moto	rs	
Comment	Туре Е	Comment Status R		OAN
Sub-c	lause 115.3 has	to be included in the draft sind	ce sub-clauses t	o it are included.
Suggested	dRemedy			
Add "	115.3 Physical M	edium Attachment (PMA) sub	olayer" before 11	5.3.4.
Response	•	Response Status C		
	CT. OAM definiti fore is not applic	on will be included in Clause : able.	300 if comment a	#11 is approved by TF.
C/ 115	SC 115.3.4	P 52	L 24	# 252
Hayashi, [·]	Takehiro	HAT Lab., Inc		
Comment	Туре Е	Comment Status R		Clause 115 modification
Add e	xplanations abou	It the prefix "LOCPHD" and "F	REMPHD" as de	scribed in page 82.
Suggested	dRemedy			
add th	ne folloing descrip	otions,		
refers link pa sampl	to the fields of th artner from the lo	with transmit and receive PH he PHD to be included in the r cal PHY. LOCPHD fields assi a Transmit Block by the PHD Block.	next Transmit Blo igned by the stat	ock transmitted to the te diagrams shall be
valida shall b decod	ted from the link be available to th	efers to the fields of the most i partner (from the remote PHY e state diagrams and register on of the entire PHD and befo is completed	 The new valu s immediately af 	es of REMPHD fields fter reception,

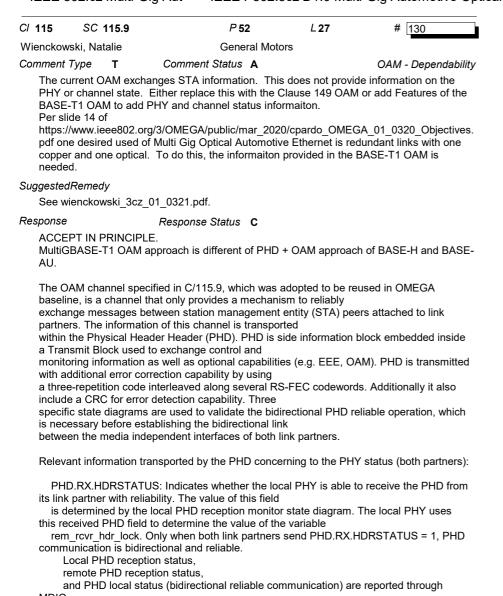
Response Response Status C

REJECT.

Descriptions are in the original subclause 115.3.4. In D1.0, only the proposed changed text is shown.

C/ 115 SC 115.3.4

D 1.0 Comment Report



MDIO.

All the information transported in the PHD is always valid and it is only transferred to MDIO registers and SDs if CRC is valid.

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

PHD.RX.LINKMARGIN: The value of this field is determined by the PHY quality monitor state diagram in response to link margin estimation.

Local link margin,

and remote link margin (the partner) are reported by MDIO.

Link margins are reported with format (8, 3) fix point in log2 units of the extra noise variance supported by the each receiver fulfilling BER < 10^A-12.

Min resolution is 2^-(8-3) = 0.0312 log2 units, equivalent to 10*log10(2)*0.0312 =~ 0.1 dB

Range is [-2⁽³⁻¹⁾, 2⁽³⁻¹⁾-2⁻⁵] = [-4, 3.97] log2 units, equivalent to approx. [-12, 12] dB.

The noise variance at symbol detector can be estimated either by measuring the Modulation Error Ratio (MER) at the decision points or measuring

the ratio of corrected symbols per codeword carried out by the RS-FEC decoder. The value of the threshold and the information used to estimate the

RS-FEC decoder noise variance is implementation dependent.

PHD.RX.LINKSTATUS: Indicates whether the local PHY is able to receive 65-bit blocks with reliability. The value of this field is determined by the PHY quality

monitor state diagram. The local PHY uses this received PHD field to determine the value of the variable rem_rcvr_status.

A receiver shall assign PHD.RX.LINKSTATUS the value 1, only when local link margin \geq 0 dB.

Local receiver status,

Remote receiver status (partner),

and Link status (bidirectional) are reported by MDIO.

Assignment of link_status = 1 happen synchronously in both PHY partners (local and remote), based on the defined state diagrams.

It is clear that the bidirectional PHY status (headers reliability, user data reliability and link margin) can be observed and checked through MDIO registers in any OMEGA PHY, differentiating characteristics of the local and remote PHY. Everything is independent of OAM channel.

Additional status information that represents the state of health of the transmitting device, which are expected to be transmitted automatically without intervention of STA (e.g. Annex 149B), would be suitable to be implemented at the PHD level (using the reserved bits) i/o OAM level to avoid interaction with the currently defined OAM protocols. This may include Power supply warning, Internal temperature warning, etc.

Action Item to ToDo list: PHY health remote monitoring.

Cl	115
SC	115.9

Page 22 of 62 15/05/2021 10:13:20

	P 52 L 47	# 253	C/ 115	SC 115.9.1	P 52	L 53	# 256
	HAT Lab., Inc.		Hayashi, T		HAT Lab., Inc.		
Comment Type E Comment So TXO_REQ is a bit name but not a bit it		Clause 115 modification		<i>Type</i> E entence should b	Comment Status R e separated by ",".		Clause 115 modification
SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE	EQ)		Suggested add ","	<i>IRemedy</i> ' between "transr	nission" and "it".		
Response Response St REJECT. We would need a maintenar		5 to do this modification	Response REJE0	CT. We would ne	Response Status C red a maintenance request of (Clause 115	to do this modification
C/ 115 SC 115.9.1	P 52 L 50	# 254	C/ 115	SC 115.9.1	P 53	L 1	# 258
Hayashi, Takehiro	HAT Lab., Inc.		Hayashi, T	Takehiro	HAT Lab., Inc.		
Comment Type E Comment S TXO_DATA0 is a bit name but not a bit		Clause 115 modification consistant expression.	Comment TXO_F		Comment Status R e but not a bit itself. Should fo	llow the con	Clause 115 modification sistant expression.
SuggestedRemedy bit TXO_DATA0 ® bit 3.500.11:0 (TXC)_DATA0)		Suggested bit TX0	-	00.15 (TXO_REQ)		
Response Response St REJECT. We would need a maintenar		5 to do this modification	Response REJE0	CT. We would ne	Response Status C ed a maintenance request of (Clause 115	to do this modification
C/ 115 SC 115.9.1	P 52 L 51	# 255	C/ 115	SC 115.9.1	P 53	L 2	# 259
	HAT Lab., Inc.			Takahira			
layashi, Takehiro	The Ease, mo.		Hayashi, T	akeniro	HAT Lab., Inc.		
	status R	Clause 115 modification	Comment	Туре Е	HAT Lab., Inc. <i>Comment Status</i> R me but not a bit itself. Should t	follow the co	
Comment Type E Comment S	tatus R tself. Should follow the co		Comment TXO_N Suggested	<i>Type</i> E MSGT is a bit na <i>IRemedy</i>	Comment Status R	follow the cc	Clause 115 modification
Comment Type E Comment S TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE	tatus R tself. Should follow the co EQ) tatus C	nsistant expression.	Comment TXO_N Suggested bit TXO Response	<i>Type</i> E MSGT is a bit na <i>IRemedy</i> D_MSGT ® bit 3	Comment Status R me but not a bit itself. Should t		onsistant expression.
Comment Type E Comment St TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE Response Response St REJECT. We would need a maintenar	tatus R tself. Should follow the co EQ) tatus C	nsistant expression.	Comment TXO_N Suggested bit TXO Response	<i>Type</i> E MSGT is a bit na <i>IRemedy</i> D_MSGT ® bit 3	Comment Status R me but not a bit itself. Should f 500.12 (TXO_MSGT) Response Status C		onsistant expression.
Comment Type E Comment St TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE Response Response St REJECT. We would need a maintenar	tatus R tself. Should follow the co EQ) tatus C nce request of Clause 115	onsistant expression.	Comment TXO_N Suggested bit TX0 Response REJE0	<i>Type</i> E MSGT is a bit na <i>IRemedy</i> O_MSGT ® bit 3 CT. We would ne SC 115.9.1	Comment Status R me but not a bit itself. Should f 500.12 (TXO_MSGT) Response Status C red a maintenance request of 0	Clause 115 t	to do this modification
Comment Type E Comment St TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE Response Response St REJECT. We would need a maintenar Cl 115 SC 115.9.1 Hayashi, Takehiro	tatus R tself. Should follow the co EQ) tatus C nce request of Clause 115 P 52 L 53 HAT Lab., Inc.	5 to do this modification # 257 shall statements	Comment TXO_N Suggested bit TXC Response REJEC Cl 115 Hayashi, T Comment TXO_N	Type E MSGT is a bit na IRemedy D_MSGT ® bit 3 CT. We would ne SC 115.9.1 Fakehiro Type E DATA0 is a bit na	Comment Status R me but not a bit itself. Should f 500.12 (TXO_MSGT) Response Status C red a maintenance request of (P 53	Clause 115 (to do this modification # 260 Clause 115 modification
Comment Type E Comment State TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE Response Response State REJECT. We would need a maintenar C/ 115 SC 115.9.1 Hayashi, Takehiro Comment Type E Comment State "does" looks ambiguous expression. A should be used.	tatus R tself. Should follow the co EQ) tatus C nce request of Clause 115 P 52 L 53 HAT Lab., Inc.	5 to do this modification # 257 shall statements	Comment TXO_N Suggested bit TXC Response REJEC Cl 115 Hayashi, T Comment TXO_D Suggested	Type E MSGT is a bit na IRemedy D_MSGT ® bit 3 CT. We would ne SC 115.9.1 Fakehiro Type E DATA0 is a bit na IRemedy	Comment Status R me but not a bit itself. Should to 500.12 (TXO_MSGT) Response Status C red a maintenance request of (P53 HAT Lab., Inc. Comment Status R ame but not a bit itself. Should	Clause 115 (to do this modification # 260 Clause 115 modificatio
Comment Type E Comment St TXO_REQ is a bit name but not a bit it SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_RE Response Response St REJECT. We would need a maintenar C/ 115 SC 115.9.1 Hayashi, Takehiro Comment Type E Comment St "does" looks ambiguous expression. A	tatus R tself. Should follow the co EQ) tatus C nce request of Clause 115 P 52 L 53 HAT Lab., Inc.	5 to do this modification # 257 shall statements	Comment TXO_N Suggested bit TXC Response REJEC Cl 115 Hayashi, T Comment TXO_D Suggested	Type E MSGT is a bit na IRemedy D_MSGT ® bit 3 CT. We would ne SC 115.9.1 Fakehiro Type E DATA0 is a bit na IRemedy	Comment Status R me but not a bit itself. Should f 500.12 (TXO_MSGT) Response Status C red a maintenance request of (P 53 HAT Lab., Inc. Comment Status R	Clause 115 (to do this modification # 260 Clause 115 modificatio

TYPE: TR/technical required ER/editorial required GR/general re	equired T/technical E/editorial G/general	C/ 115
COMMENT STATUS: D/dispatched A/accepted R/rejected R	ESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 115.9.1
SORT ORDER: Clause, Subclause, page, line		

Page 23 of 62 15/05/2021 10:13:20

C/ 115	SC 115.9.1	P 53	L7	# 261	C/ 115	SC 115.9.3	P 54	L 40	# 265
Hayashi, [·]	Takehiro	HAT Lab., Inc.			Hayashi, 1	akehiro	HAT Lab., Inc		
Comment	Type E	Comment Status R		Clause 115 modification	Comment	Туре Е	Comment Status R		Clause 115 modificatior
If thes	e sentences are	requirements, "shall" should b	e used.		RXO_	VAL is a bit name	e but not a bit itself. Should fo	ollow the con	sistant expression.
Suggested does i	dRemedy not ® shall not				Suggested bit RX		09.15 (RXO_VAL)		
Response		Response Status C			Response		Response Status C		
REJE	CT. We would ne	ed a maintenance request of	Clause 115	to do this modification	REJE	CT. We would ne	ed a maintenance request of	Clause 115	to do this modification
C/ 115	SC 115.9.1	P 53	L15	# 262	C/ 115	SC 115.9.3	P 54	L 41	# 266
Hayashi, [·]	Takehiro	HAT Lab., Inc.			Hayashi, 1	akehiro	HAT Lab., Inc		
Comment If thes	••	Comment Status R requirements, "shall" should b	e used.	Clause 115 modification	Comment Clarify	<i>Type</i> E local or remote	Comment Status R of "the PHY"		Clause 115 modification
Suggested alway	d <i>Remedy</i> s maintain ® shal	I maintain			Suggested "local"	•			
Response REJE		<i>Response Status</i> C ed a maintenance request of	Clause 115	to do this modification	Response REJE	CT. We would ne	<i>Response Status</i> C ed a maintenance request of	Clause 115	to do this modification
C/ 115	SC 115.9.1	P 53	L 20	# 263	C/ 115	SC 115.9.3	P 54	L 48	# 267
Hayashi, [·]	Takehiro	HAT Lab., Inc.			Hayashi, 1	akehiro	HAT Lab., Inc		
<i>Comment</i> Is the		Comment Status R neaning for "outstanding"?		Clause 115 modification	Comment RXO_		Comment Status R e but not a bit itself. Should fo	blow the con	Clause 115 modification sistant expression.
Suggested	dRemedy				Suggested	Remedy			
lf no t	echnical meaning	, deleat "outstanding"			bit RX	O_VAL ® bit 3.50	09.15 (RXO_VAL)		
Response		Response Status C			Response		Response Status C		
REJE	CT. We would ne	ed a maintenance request of	Clause 115	to do this modification	REJE	CT. We would ne	ed a maintenance request of	Clause 115	to do this modification
C/ 115	SC 115.9.3	P 54	L 37	# 264					
Hayashi, [·]	Takehiro	HAT Lab., Inc.							
<i>Comment</i> If thes	•	Comment Status R requirements, "shall" should b	e used.	Clause 115 modification					
Suggested	dRemedy not ® shall not								
does i									
does i Response		Response Status C							

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

C/ 115 SC 115.9.3 Page 24 of 62 15/05/2021 10:13:20

	P 54	L 51	# 268	C/ 115 S	C 115.9.3	P 55	L 24	# 271
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, Takel	hiro	HAT Lab., Inc.		
Comment Type E Co RXO_VAL, RXO_MSGT, and follow the consistant express		mes but not k	Clause 115 modification bits themselvs. Should	Comment Type "follow" sou SuggestedRem	unds ambiguo	Comment Status R bus.		Clause 115 modification
SuggestedRemedy					re defined as	follows"		
bit RXO_VAL ® bit 3.509.15 bit RXO_MSGT ® bit 3.509.1 bit RXO_DATA0 ® bit 3.509.	12 (RXO_MSGT)			Response REJECT. V	Ve would nee	Response Status C ed a maintenance request of C	ause 115	to do this modification
Response Res REJECT. We would need a n	<i>sponse Status</i> C maintenance request of C	lause 115 to	do this modification	C/ 115 S Hayashi, Takel	C 115.9.3 hiro	<i>Р</i> 55 НАТ Lab., Inc.	L 51	# 272
C/ 115 SC 115.9.3 Hayashi, Takehiro	<i>Р</i> 55 НАТ Lab., Inc.	L 11	# 269	Comment Type RXO_MSG		Comment Status R ne but not a bit itself. Should fo	ollow the co	Clause 115 modification onsistant expression.
Comment Type E Co If these sentences are requir	omment Status R rements, "shall" should be	used.	Clause 115 modification	SuggestedRem bit RXO_M	,	509.12 (RXO_MSGT)		
SuggestedRemedy always maintain ® shall mair	ntain			Response REJECT. V	Ve would nee	Response Status C ed a maintenance request of C	ause 115	to do this modification
	sponse Status C	lause 115 to	do this modification	C/ 115 S Hayashi, Takel	C 115.9.3	<i>Р</i> 56 НАТ Lab., Inc.	L 2	# 273
Response Res REJECT. We would need a r	maintenance request of C							
REJECT. We would need a r	P 55 HAT Lab., Inc.	L 15	# 270	Comment Type RXO_DAT	; E	<i>Comment Status</i> R me but not a bit itself. Should f	ollow the c	Clause 115 modification consistant expression.
REJECT. We would need a n C/ 115 SC 115.9.3 Hayashi, Takehiro	P 55 HAT Lab., Inc. comment Status R		# 270 Clause 115 modification	RXO_DAT	e E A0 is a bit na nedy	Comment Status R	ollow the c	

REJECT. We would need a maintenance request of Clause 115 to do this modification

C/ 115 SC 115.9.3 Page 25 of 62 15/05/2021 10:13:20

	C/ 115 SC 115.9.3	P 56 L 33	3 # 277
Hayashi, Takehiro HAT Lab., Inc.	Hayashi, Takehiro	HAT Lab., Inc.	
Comment Type E Comment Status R Clause 115 modifica	tion Comment Type E Com	nment Status R	Clause 115 modification
RXO_DATA1, RXO_DATA8 are bit name but not bit themselves. Should follow the consistant expression.	TXO_MSGT is a bit name but	not a bit itself. Should follow th	e consistant expression.
SuggestedRemedy	SuggestedRemedy		
bit RXO_DATA1 ® bit 3.510.15:0 (RXO_DATA1)	bit TXO_MSGT ® bit 3.500.12		
bit RXO_DATA8 ® bit 3.517.15:0 (RXO_DATA8)		onse Status C	115 to do this woodification
Response Response Status C	REJECT. We would need a ma	aintenance request of Clause	115 to do this modification
REJECT. We would need a maintenance request of Clause 115 to do this modification	C/ 115 SC 115.9.3	P 56 L 38	8 # 278
C/ 115 SC 115.9.3 P 56 L 7 # 275	Hayashi, Takehiro	HAT Lab., Inc.	
Hayashi, Takehiro HAT Lab., Inc.	37	nment Status R	Clause 115 modification
Comment Type E Comment Status R Clause 115 modifica		out bit.	
RXO_VAL is a bit name but not a bit itself. Should follow the consistant expression.	SuggestedRemedy TXO_DATA0 field ® bit 3.500.		
SuggestedRemedy		onse Status C	
bit RXO_VAL ® bit 3.509.15 (RXO_VAL)	REJECT. We would need a ma		115 to do this modification
Response Response Status C REJECT. We would need a maintenance request of Clause 115 to do this modification			
· · · · · · · · · · · · · · · · · · ·	C/ 115 SC 115.9.3	P 56 L 3	9 # <u>279</u>
C/ 115 SC 115.9.3 P 56 L 28 # 276	Hayashi, Takehiro	HAT Lab., Inc. Inment Status R	Clause 115 modification
Hayashi, Takehiro HAT Lab., Inc.			
Comment Type E Comment Status R Clause 115 modifica TXO MERT is a bit name but not a bit itself. Should follow the consistant expression.	suggestedRemedy		,
SuggestedRemedy	TXO_DATA1 ® bit 3.501.15:0	(TXO_DATA1)	
edgeeteententeuy	TXO_DATA8 ® bit 3.508.15:0	/	
bit TXO MERT ® bit 3.500.13 (TXO MERT)	. ,	onse Status C	115 to do this modification
bit TXO_MERT ® bit 3.500.13 (TXO_MERT) Response Response Status C	REJECT. We would need a ma	antenance request of Clause	
Response Response Status C	C/ 115 SC 115.9.3	P 56 L 4	3 # 280
Response Response Status C	Hayashi, Takehiro	HAT Lab., Inc.	3 # <u>280</u>
Response Response Status C	Hayashi, Takehiro	HAT Lab., Inc. Inment Status R	Clause 115 modification
Response Response Status C	Hayashi, Takehiro Comment Type E Com	HAT Lab., Inc. Inment Status R not a bit itself. Should follow th	Clause 115 modification
Response Response Status C	Hayashi, Takehiro Comment Type E Com TXO_OHYT is a bit name but i SuggestedRemedy bit TXO_PHYT ® bit 3.500.14	HAT Lab., Inc. Inment Status R not a bit itself. Should follow th	Clause 115 modification

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/115Page 26 of 62COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC15/05/2021 10:13:20SORT ORDER: Clause, Subclause, page, lineSORT ORDER: Clause, Subclause, page, lineSC15/05/2021 10:13:20

C/ 115 SC 115.9.3	P 56	L 48	# 281	C/ 115	SC ·	115.9.4.2	P 58	L16	# 286
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, T	Fakehirc)	HAT Lab., Inc.		
Comment Type E TXO_REQ is a bit nan	Comment Status R ne but not a bit itself. Should foll	ow the cor	Clause 115 modification nsistant expression.	Comment TXO_F	•••	E	Comment Status R		Clause 115 modification
SuggestedRemedy bit TXO_REQ ® bit 3.5	00.15 (TXO_REQ)			Suggested see #2		у			
Response REJECT. We would n	<i>Response Status</i> C eed a maintenance request of C	lause 115	to do this modification	Response REJE0		would nee	<i>Response Status</i> C d a maintenance request of Cl	ause 115	to do this modification
C/ 115 SC 115.9.4.2	P 58	L 8	# 282	C/ 115	SC ·	115.9.4.2	P 58	L 16	# 285
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, T	Fakehirc)	HAT Lab., Inc.		-
Comment Type E TXO_MERT	Comment Status R		Clause 115 modification	Comment TXO_N	•••	E	Comment Status R		Clause 115 modification
SuggestedRemedy see #281				Suggested see #2		У			
Response REJECT. We would n	<i>Response Status</i> C eed a maintenance request of C	lause 115	to do this modification	Response REJE0	CT. We	would nee	<i>Response Status</i> C d a maintenance request of Cl	ause 115	to do this modification
C/ 115 SC 115.9.4.2	P 58	L 9	# 283	C/ 115	SC ·	115.9.4.2	P 58	L 22	# 287
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, T	Fakehirc)	HAT Lab., Inc.		
Comment Type E TXO_PHYT	Comment Status R		Clause 115 modification	Comment TXO_F		E	Comment Status R		Clause 115 modification
SuggestedRemedy see #281				Suggested see #2		У			
Response REJECT. We would n	<i>Response Status</i> C eed a maintenance request of C	lause 115	to do this modification	Response REJE0		would nee	<i>Response Status</i> C d a maintenance request of Cl	ause 115	to do this modification
C/ 115 SC 115.9.4.2	P 58	L14	# 284	C/ 115	SC ·	115.9.4.2	P 58	L 23	# 288
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, T	Fakehirc)	HAT Lab., Inc.		
Comment Type E TXO_DATA0	Comment Status R		Clause 115 modification	Comment TXO_N		Е	Comment Status R		Clause 115 modification
SuggestedRemedy see #281				Suggested see #2		У			
							Response Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn C/ 115 Page 27 of 62 15/05/2021 10:13:20 SC 115.9.4.2 SORT ORDER: Clause, Subclause, page, line

C/ 115 SC 115.9.4.3	P 58	L 40	# 289	C/ 115	SC 1	15.9.4.3	P 58	L 53	# 293
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, T	akehiro		HAT Lab., Inc.		
Comment Type E RXO_MSGT	Comment Status R		Clause 115 modification	Comment RXO_\	• •	E	Comment Status R		Clause 115 modification
SuggestedRemedy see #281				Suggested see #2	-	,			
Response REJECT. We would ne	<i>Response Status</i> C eed a maintenance request of Cl	lause 115 f	to do this modification	Response REJEC	CT. We v	would nee	<i>Response Status</i> C d a maintenance request of C	lause 115	to do this modification
C/ 115 SC 115.9.4.3	P 58	L 45	# 290	C/ 115	SC 1	15.9.4.3	P 59	L 46	# 294
layashi, Takehiro	HAT Lab., Inc.			Hayashi, T	akehiro		HAT Lab., Inc.		
Comment Type E RXO_DATA0	Comment Status R		Clause 115 modification	Comment T RXO_N	•••	E	Comment Status R		Clause 115 modification
SuggestedRemedy see #281				Suggested see #2	-	/			
Response REJECT. We would ne	<i>Response Status</i> C eed a maintenance request of Cl	lause 115 t	to do this modification	Response REJEC	CT. We v	would nee	<i>Response Status</i> C d a maintenance request of C	lause 115	to do this modification
7 115 SC 115.9.4.3	P 58	L 46	# 292	C/ 115	SC 1	15.14.3	P 60	L 3	# 129
layashi, Takehiro	HAT Lab., Inc.			Wienckow	ski, Nata	alie	General Motors		
<i>comment Type</i> E RXO_MSGT	Comment Status R		Clause 115 modification	Comment Sub-cla	• •	E 5.14 has t	Comment Status R o be included in the draft sinc	e sub-clau	OAM ses to it are included.
				Suggested	Remedy	/			
SuggestedRemedy				115, P		Coding Su	plementation conformance sta blayer (PCS), Physical Mediu	m Attachn	nent (PMA) sublayer, and
see #281 Response	<i>Response Status</i> C eed a maintenance request of Cl	ause 115 t	o do this modification		al Mediu		dent (PMD) sublayer, types 10 before 115.15.3.	000BASE-	
see #281 Response REJECT. We would ne	eed a maintenance request of Cl				al Mediu			000BASE-	
see #281 Response REJECT. We would ne	eed a maintenance request of Cl	lause 115 t <i>L</i> 46	to do this modification # 291	and 10 <i>Response</i> REJEC	al Mediu 00BASE CT. OAN	E-RHC33" 1 definitior	before 115.15.3. <i>Response Status</i> C will be included in Clause 30		
see #281 Response REJECT. We would ne 7 115 SC 115.9.4.3 layashi, Takehiro	eed a maintenance request of Cl			and 10 <i>Response</i> REJEC	al Mediu 00BASE CT. OAN	E-RHC33"	before 115.15.3. <i>Response Status</i> C will be included in Clause 30		
Response REJECT. We would ne Cl 115 SC 115.9.4.3 Hayashi, Takehiro Comment Type E	P 58 HAT Lab., Inc.		# 291	and 10 <i>Response</i> REJEC	al Mediu 00BASE CT. OAN	E-RHC33" 1 definitior	before 115.15.3. <i>Response Status</i> C will be included in Clause 30		

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

C/ 115 SC 115.14.3 Page 28 of 62 15/05/2021 10:13:20

D 1.0 Comment Report

C/ 125	SC 125.1.3	P 61	L 21	# 26
Pérez-Aranda	, Rubén	KDPOF		
Comment Typ	e T	Comment Status A		optical fiber

Too many details (RS size, GF, ...) for an overview in a generic clause.

SuggestedRemedy

2.5GBASE-AU represents Physical Layer devices using Clause 300 Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer, and Physical Medium Dependent (PMD) sublayer, for transmitting 2.5 Gb/s Ethernet over a multimode optical fiber tailored for automotive applications. 2.5GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber GEBASE-AU represents Physical Layer devices using Clause 300 Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer, and Physical Medium Dependent (PMD) sublayer, for transmitting 5 Gb/s Ethernet over a multimode optical fiber tailored for automotive applications. 5GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber.

Response Response Status C

ACCEPT IN PRINCIPLE.

"2.5GBASE-AU represents Physical Layer devices using Clause 166 Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer, and Physical Medium Dependent (PMD) sublayer, for transmitting 2.5 Gb/s Ethernet over optical fiber for automotive applications. 2.5GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber."

C/ 125	SC 125.1.	3 <i>P</i> 61	L 23	# 154
Grow, Rob	pert	RMG Consult	ting, KDPOF	
Comment	Туре Е	Comment Status A		optical fiber
Definit	ions. The wo	improved for consistency with re rds "an optical fiber" implies a si guous (i.e.,, PHY or the fiber).		
Suggested	Remedy			
"for tra	insmitting 2.5	Gb/s Ethernet over optical fiber	in automotive a	pplications."
Response		Response Status C		

ACCEPT IN PRINCIPLE. Replace "optical fiber tailored for automotive applications." by "optical fiber for use in automotive applications"

C/ 125	SC 125.1.3	P 61	L 25	# 325
Abbott, Jo	hn	Corning		
Comment chang	<i>Type</i> E e PAM2 to NRZ	Comment Status A		PAM
Suggested chang	dRemedy e PAM2 to NRZ			
Response ACCE		Response Status C		
C/ 125	SC 125.1.3	<i>P</i> 61	L 29	# 155
Grow, Rol	pert	RMG Cons	ulting, KDPOF	
Comment	Type E	Comment Status A		optical fiber
Langu	age could be imp	roved for consistency with	requested change	s to P802.3cz

Language could be improved for consistency with requested changes to P802.3cz Definitions. The words "an optical fiber" implies a single fiber, not two fibers. What is tailored is also ambiguous (i.e.,, PHY or the fiber).

SuggestedRemedy

"for transmitting 5 Gb/s Ethernet over optical fiber in automotive applications."

Response Response Status C

ACCEPT IN PRINCIPLE. Replace "optical fiber tailored for automotive applications." by "optical fiber for use in automotive applications"

C/ 125	SC 125.1.3	P 6	1	L 31	# 326
Abbott, Jo	hn	Corni	ing		
Comment chang	<i>Type</i> E e PAM2 to NRZ	Comment Status	Α		PAM
Suggested chang	<i>Remedy</i> e PAM2 to NRZ				
Response ACCE		Response Status	С		

C/ 125 SC 125.1.3

IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments IEEE 802.cz Multi-Gig Aut

D 1.0 Comment Report

C/ 125 SC 125.	1.3 P 62	L 33	# 27	C/ 125	SC 125.1.4	P 63	L17	# 327
Pérez-Aranda. Rubén		200	" []	Abbott. Joł		Corning	217	11 521
Comment Type T	Comment Status A		BASE-U	Comment 1		Comment Status A		PAM
51	same nomenclature should be use	ed in Fig 44-1, 10		change	PAM2 to NRZ			
SuggestedRemedy				<i>Suggestedl</i> change	Remedy PAM2 to NRZ			
BASE-U PMA.	E-AU PCS and 5GBASE-AU PC	S with BASE-U F	CS. Replace PMA with	Response		Response Status C		
Response	Response Status C			ACCEF	РТ.			
ACCEPT.				C/ 125	SC 125.1.4	P 63	L 26	# 296
C/ 125 SC 125.	1.4 P 63	L	# 28	Hayashi, T	akehiro	HAT Lab., Inc		
Pérez-Aranda, Rubén	KDPOF			Comment 1	Гуре Т	Comment Status A		optical fiber
Comment Type T	Comment Status A		optical fiber	"optica	l fiber" is anbigue	ous		
21	cy with table 105-1.			Suggestedl	Remedy			
SuggestedRemedy	-			change	e to "a pair of mu	Itimode optical fiber"		
modulation over m 300)."	Gb/s PHY using 64B/65B and R nultimode optical fiber tailored for with: "5 Gb/s PHY using 64B/65 nultimode optical fiber tailored for	automotive appl B and Reed-Solo	cations (see Clause omon encoding with NRZ		PT IN PRINCIPL te "optical fiber"	<i>Response Status</i> C E. by "optical fiber for use in au	tomotive applica	ations"
300)."	,		(-	C/ 125	SC 125.1.4	P 64	L 23	# 297
Response	Response Status C			Hayashi, T	akehiro	HAT Lab., Inc		
	ICIPLE. Gb/s PHY using 64B/65B and Ree ptical fiber for use in automotive a			Comment 1 2.5GBA Suggestedl	ASE-AU "M" for 2	Comment Status A 2.5GBASE-T1 is wrong		EZ
"2.5 Gb/s PHY usi	ing 64B/65B and Reed-Solomon		RZ modulation over	delete '				
optical fiber for use Definition accordir	e in automotive applications (see	Clause 166)."		Response		Response Status C		
C/ 125 SC 125.	-	L17	# 295	ACCEF	PT.	Response Status		
Hayashi, Takehiro	HAT Lab., In	C.						
Comment Type T "optical fiber" is ar	Comment Status A		optical fiber					
SuggestedRemedy change to "a pair of	of multimode optical fiber"							
Response	Response Status C							
ACCEPT IN PRIN Replace "optical fi		tomotive applica	tions"					

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

C/ 125 SC 125.1.4 Page 30 of 62 15/05/2021 10:13:20

C/ 125 SC 125.	I.4 <i>P</i> 64	L 23	# 29	C/ 131	SC 131.1.2	P 66	L 25	# 31
Pérez-Aranda, Rubén	KDPOF			Pérez-Ara	anda, Rubén	KDPOF		
Comment Type T	Comment Status A		EZ	Comment	Туре Т	Comment Status A		BASE-U
of 5GBASE-AU is	n of 2.5GBASE-AU is not manda not mandatory 5GBASE-T1. The oding. Also in line 29	,			onsistency, same n lines 26, 27	nomenclature should be use	d in Fig 44-1, 10	95-1, 125-1 and 131-1.
	oung. Also in line 29			Suggested	-			
SuggestedRemedy	2.5GBASE-T1 and 5GBASE-T1	the the column	a 2 ECRASE All and	Repla	ce 50GBASE-AU	PCS with BASE-U PCS. Re	place PMA with	BASE-U PMA.
5GBASE-AU resp			S 2.500A3E-AU anu	This c	hange can be po	stponed until 50G baseline fo	or PCS and PMA	is adopted.
Response	Response Status C			Response		Response Status C		
ACCEPT.				ACCE See #	EPT IN PRINCIPL	E.		
C/ 125 SC 125.	I.4 P 64	L 29	# 298	C/ 131	SC 131.1.3	P 67	L7	# 32
Hayashi, Takehiro	HAT Lab., In	IC.			anda, Rubén	KDPOF		
Comment Type T	Comment Status A		EZ	Comment		Comment Status A		optical fibe
5GBASE-AU "M" 1	or 5GBASE-T1 is wrong				ultimode fiber			oplical noc
SuggestedRemedy				Suggested	dRemedy			
delete "M"					•	with "multimode optical fiber"		
Response	Response Status C			Response	•	Response Status C		
ACCEPT.				•		E. Use definition in #150:		
C/ 125 SC 125.	2.4 <i>P</i> 64	L 47	# 30			automotive applications"		
Pérez-Aranda, Rubén	KDPOF			C/ 131	SC 131.1.3	P 67	L7	# 156
Comment Type T	Comment Status A		Miss text	Grow, Rol	bert	RMG Consul	ting, KDPOF	
PMD is missed! O	MEGA is the first project defining	optical PHYs for	r 2.5 and 5 Gb/s rates.	Comment	Type E	Comment Status A	U	optical fibe
SuggestedRemedy						proved for consistency with re		
	ndment of clause 125 consistent review of other missing parts.	ly with clause 10	5 to include PMD			"an optical fiber" implies a s ous (i.e.,, PHY or the fiber).	ingle fiber, not tv	vo fibers. What is
Response	Response Status C			Suggested	dRemedy			
	, CIPLE. Add a placeholder for the	PMD 2.5 and 5	Gb/s sublayers similar	"for tra	ansmitting 50 Gb	's Ethernet over optical fiber	in automotive ap	plications.
to the ones in Clau	ise 105			Response	,	Response Status C		
						E. Replace "optical fiber taile	rad for outomati	ivo opplicationa " by

ACCEPT IN PRINCIPLE. Replace "optical fiber tailored for automotive applications." by "optical fiber for use in automotive applications"

C/ 131 SC 131.1.3

C/ 131 SC 131.1.3	P 67	L 8	# 33	C/ 131	SC 131.1.	.3 P 67	L 31	# 157
Pérez-Aranda, Rubén	KDPOF			Grow, Rob	pert	RMG	Consulting, KDPOF	-
Comment Type T	Comment Status A		PAM	Comment	Туре Е	Comment Status	Α	optical fibe
baseline adopted.	ood as PAM with X levels will	be used. NRZ i	s other option. No	Definiti	ions. The wo	improved for consistency ords "an optical fiber" imp iguous (i.e.,, PHY or the	lies a single fiber, n	
SuggestedRemedy			- "	Suggested		·3 (····,, · ··· -· ···		
	s aopted, replace PAMX with '	I BD modulatio	n .	00	-	g TBD encoding over opti	cal fiber in automot	ive applications (see
Response	Response Status C				e 300)."	,		···
ACCEPT.				Response		Response Status	с	
C/ 131 SC 131.1.3 Hayashi, Takehiro	<i>Р</i> 67 НАТ Lab., Inc	L 31	# 299			IPLE. Replace "optical fi in automotive applicatio		motive applications." by
Comment Type T	Comment Status A	-	optical fiber	C/ 131	SC 131.2	2 P 67	L 45	# 174
The cabling won't be a			optical liber	Grow. Rob	pert	RMG	Consulting, KDPOF	
SuggestedRemedy	of multimode optical fiber			Comment		Comment Status	-	EZ
Response ACCEPT IN PRINCIP	Response Status C			Suggested 50GBA	IRemedy ASE-AU			
Replace "a optical fibe	r" by "optical fiber for use in a	utomotive applie	cations"	Response		Response Status	с	
C/ 131 SC 131.1.3	P 67	L 31	# 34	ACCEI	PT.			
Pérez-Aranda, Rubén	KDPOF			C/ 131	SC 131.2	.2 P67	L 46	# 35
Comment Type T	Comment Status A		optical fiber	Pérez-Arai	nda, Rubén	KDPC	F	
For consistency with c	ther comments and their prop	osed changes.		Comment	,	Comment Status		Details
SuggestedRemedy Replace with: "50 Gb/s	s PHY using TBD encoding wi	th TBD modulat	ion over multimode		details compa	ared with PMA and PMD.		
	r automotive applications (see			Suggested	0,			
Response	Response Status C			00	2	The 50GBASE-AU PCS i	s specified in Claus	se 300." Easier to maintain.
	C Danlaga "antigal fiber tails	red for automot	ive applications " by "50	•			•	
ACCEPT IN PRINCIP	LE. Replace oplical liber lallo		we applications. by 50	Response		Response Status	^	

C/ 131 SC 131.2.2 Page 32 of 62 15/05/2021 10:13:20

D 1.0 Comment Report

C/ 131 SC 131.2.	.3 P 67	L 50	# 36	C/ 300	SC 300	P71	L 9	# 37
Pérez-Aranda, Rubén	KDPOF			Pérez-Ar	anda, Rubén	KDPOF		
Comment Type E	Comment Status A		E.	Comment	t Type E	Comment Status A		EZ
	not and does not require to be a	amended. In the F	-ig 44-1, 105-1, 125-1	PMD	is a sublayer. T	hey are several types (plural)		
	blayer is not included.			Suggeste	dRemedy			
SuggestedRemedy						cal Coding Sublayer (PCS), Pł		
Remove it.						al Medium Dependent (PMD) s SE-AU, 25GBASE-AU, and 50		.5GBASE-AU,
Response	Response Status C				,	, , ,	JGBASE-AU	
ACCEPT.				Response		Response Status C		
C/ 30,3 SC 30,3	P 21	L 4	# 126		EPT.			
Hyakutake, Yasuhiro		miki Precision Je		C/ 300	SC 300.1	P71	L 23	# 158
Comment Type E	Comment Status R		, inoi 00., Eta.	Grow, Ro	obert	RMG Consult	ting, KDPOF	-
51	plain the abbreviation of "DTEs"	that the first see	n in this amendment	Commen	t Type E	Comment Status A		optical fiber
Response REJECT.	ata Terminal Equipments" expla <i>Response Status</i> C ned in 802.3:2018,Clause 1.5 A		qe 109	<i>Suggeste</i> "The	dRemedy 2.5GBASE-AU,	uous (i.e.,, PHY or the fiber). 5GBASE-AU, 10GBASE-AU, 2 o support operation in automoti	,	and 50GBASE-AU
C/ 300 SC 300	P71	L1	# 125	Response	•	Response Status C		
Pérez-Aranda, Rubén	KDPOF	L1		autor	EPT IN PRINCIF notive applicatio	PLE. "The BASE-AU PHYs are ns."	specified to sup	port operation in
Comment Type E	Comment Status A		E.	C/ 300	SC 300.1	P71	L 26	# 176
reading the draft.	ould be placed close to the clau	ises where they a	are referred to facilitate	Grow, Ro	bert	RMG Consult	ing KDPOF	
SuggestedRemedy				Commen		Comment Status A		optical fiber
				"Con	nection of PMD	to the optical fiber medium is w is is a requirement unless/until		otacle and mated
Response ACCEPT.	Response Status C			Suggeste	dRemedy			
ACCEPT.						often the statement: "Connect D receptacle and mated plug."	tion of PMD to th	ne optical fiber medium
				Response	9	Response Status C		
					EDT			

ACCEPT.

 C/
 300
 Page 33 of 62

 SC
 300.1
 15/05/2021
 10:13:20

C/ 300	SC 300.1	P 71	L 28	# 349	C/ 300 SC 300.1.1	P 71	L 43	# 41
Swanson, S	Steve	Corning Inc			Pérez-Aranda, Rubén	KDPOF		
Comment T	Гуре Т	Comment Status A		optical fiber	Comment Type E	Comment Status A		EZ
		pecific requirements for instal		e" is adequate; we	They a re five PHYs			
don't ki Suggestedi		nnector requirements will be y	et.		SuggestedRemedy Replace four with five	ð.		
Delete	": Kojiri-safe, du	st protection, vibration robustr	ness, tensile stre	ngth, etc."	Response	Response Status C		
Response ACCEF	PT.	Response Status C			ACCEPT.			
C/ 300	SC 300.1	P71	L 32	# 177	C/ 300 SC 300.1.1	P 71	L 44	# 42
Grow, Rob		RMG Consulti			Pérez-Aranda, Rubén	KDPOF		
Comment 7 Gramm	Гуре Е	Comment Status A	ig, iter of	EZ	Comment Type T Consider the use of E	Comment Status A BASE-AU i/o MultiGBASE-AU.		BASE-U
Suggested					SuggestedRemedy Per comment. If agre	ed, make general change.		
Replac	e "and" with "or"	. Also on line 37.			Response	Response Status C		
Response ACCEF	PT.	Response Status C			ACCEPT.			
CI 300					C/ 300 SC 300.1.1	P 71	L 46	# 300
	SC 300 1 1	P 71	/ 42	# 350				
	SC 300.1.1 Steve	P71 Corning Inc	L 42	# 350	Hayashi, Takehiro	HAT Lab., Inc		
Swanson, S Comment T	Steve Type E	P 71 Corning Inc Comment Status A listinct PHY types.	L 42	# <u>350</u> EZ	Comment Type E	HAT Lab., Inc <i>Comment Status</i> A of "MultiGBASE-AU" after this).	
Swanson, S Comment T Rationa	Steve <i>Type</i> E ale: there are 5 c	Corning Inc Comment Status A	L 42		<i>Comment Type</i> E For immediate usage	Comment Status A).	
Swanson, S Comment T Rationa Suggested	Steve Type E ale: there are 5 c Remedy	Corning Inc Comment Status A		EZ	Comment Type E For immediate usage sentence. SuggestedRemedy	Comment Status A).	
Swanson, S Comment T Rationa Suggested Replac	Steve <i>Type</i> E ale: there are 5 c <i>Remedy</i> e "…four distinct	Corning Inc Comment Status A distinct PHY types.		EZ	Comment Type E For immediate usage sentence. SuggestedRemedy	Comment Status A of "MultiGBASE-AU" after this).	
Swanson, S Comment T Rationa Suggested Replac Response ACCEF	Steve <i>Type</i> E ale: there are 5 c <i>Remedy</i> e "…four distinct	Corning Inc Comment Status A distinct PHY types. t PHY types" with "five dis Response Status C P71	stinct PHY types	EZ	Comment Type E For immediate usage sentence. SuggestedRemedy Add "hereafter" after Response	Comment Status A of "MultiGBASE-AU" after this "50GBASE-AU PHYs". Response Status C P72	, add "hereafter" <i>L</i> 18	
Swanson, S Comment T Rationa Suggested Replac Response ACCEF	Steve <i>Fype</i> E ale: there are 5 c <i>Remedy</i> e "four distinct PT. SC 300.1.1	Corning Inc Comment Status A distinct PHY types. t PHY types" with "five dis Response Status C P 71 RMG Consulti	stinct PHY types	EZ " # 178	Comment Type E For immediate usage sentence. SuggestedRemedy Add "hereafter" after Response ACCEPT.	Comment Status A of "MultiGBASE-AU" after this "50GBASE-AU PHYs". Response Status C P72 RMG Consult	, add "hereafter" <i>L</i> 18	at the end of the
Swanson, S Comment T Rationa Suggested Replac Response ACCEF Cl 300 Grow, Rob Comment T	Steve <i>Fype</i> E ale: there are 5 c <i>Remedy</i> e "four distinct PT. SC 300.1.1 ert	Corning Inc Comment Status A distinct PHY types. t PHY types" with "…five dis Response Status C P71 RMG Consulti Comment Status A	stinct PHY types	EZ	Comment Type E For immediate usage sentence. SuggestedRemedy Add "hereafter" after Response ACCEPT. Cl 300 SC 300.1.2	Comment Status A of "MultiGBASE-AU" after this "50GBASE-AU PHYs". Response Status C P72	, add "hereafter" <i>L</i> 18	at the end of the
Swanson, S Comment T Rationa Suggested Replac Response ACCEF C/ 300 Grow, Rob Comment T Oops, 1 Suggested	Steve <i>Type</i> E ale: there are 5 of <i>Remedy</i> e "four distinct PT. SC 300.1.1 ert <i>Type</i> E five PHY types a	Corning Inc Comment Status A distinct PHY types. t PHY types" with "…five dis Response Status C P71 RMG Consulti Comment Status A	stinct PHY types	EZ " # 178	Comment Type E For immediate usage sentence. SuggestedRemedy Add "hereafter" after Response ACCEPT. C/ 300 SC 300.1.2 Grow, Robert Comment Type E	Comment Status A of "MultiGBASE-AU" after this "50GBASE-AU PHYs". Response Status C P72 RMG Consult Comment Status A	, add "hereafter" <i>L</i> 18	at the end of the
Swanson, S Comment T Rationa Suggested Replac Response ACCEF C/ 300 Grow, Rob Comment T Oops, 1 Suggested	Steve <i>Fype</i> E ale: there are 5 of <i>Remedy</i> e "four distinct PT. SC 300.1.1 ert <i>Fype</i> E five PHY types a <i>Remedy</i>	Corning Inc Comment Status A distinct PHY types. t PHY types" with "…five dis Response Status C P71 RMG Consulti Comment Status A	stinct PHY types	EZ " # 178	Comment Type E For immediate usage sentence. SuggestedRemedy Add "hereafter" after Response ACCEPT. Cl 300 SC 300.1.2 Grow, Robert Comment Type E Grammar SuggestedRemedy	Comment Status A of "MultiGBASE-AU" after this "50GBASE-AU PHYs". Response Status C P72 RMG Consult Comment Status A	, add "hereafter" <i>L</i> 18	at the end of the

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 300
 Page 34 of 62

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 300.1.2
 15/05/2021 10:13:21

 SORT ORDER: Clause, Subclause, page, line
 SC 300.1.2
 15/05/2021 10:13:21

D 1.0 Comment Report

C/ 300	SC 300.1.2	P 72	L 20	# 180	C/ 300	SC 300.1.4	P73	L 30	# 303		
Grow, Rol	pert	RMG Consulti	ng, KDPOF		Hayashi, ⁻	Takehiro	HAT Lab., Inc	c.			
Comment	Туре Е	Comment Status A		shall statements	Comment	Туре Е	Comment Status A		BASE-AU		
		e" is used to state facts, not i	n place of a sha	I to indicate normative	Chage	e "2.5GBASE-AU	" to "MultiGBASE-AU"				
	ements.				Suggested	dRemedy					
SuggestedRemedy "System operation from the perspective of signals at the MDI and management objects						Chage "2.5GBASE-AU" to "MultiGBASE-AU"					
	erri operation from	i the perspective of signals at	the MDI and m	anagement objects	Response		Response Status C				
Response		Response Status C			ACCE						
ACCE	PT IN PRINCIPL	E. "Operation from the persp	ective of signals	at the MDI and	The te	erm BASE-AU wil	ll be used to refer to all PHYs	i.			
mana	gement objects s	hall be identical"	-		C/ 300	SC 300.1.4	P73	L 34	# 304		
C/ 300	SC 300.1.3	P72	L 23	# 301	Hayashi, ⁻	Takehiro	HAT Lab., Inc	b .			
Hayashi, ⁻	Takehiro	HAT Lab., Inc			Comment	Туре Е	Comment Status R				
Comment Type E Comment Status A BASE-AU					The sentence line 34 - 37 is very confusing.						
Chage "2.5GBASE-AU" to "MultiGBASE-AU"						SuggestedRemedy					
Suggested	Remedy						mits light with specified wave				
Chage	e "2.5GBASE-AU	" to "MultiGBASE-AU"					connects to a MultiGBASE-A to the link partner's MultiGB				
Response		Response Status C			Response		Response Status C		()		
ACCE							- 37 are comparable with the	first paragraph	of 115.1.5 (802.3-2018):		
The te	erm BASE-AU wil	I be used to refer to all PHYs.					unidirectional transmission w				
C/ 300	SC 300.1.3	P 72	L 26	# 302	of the link segment transmitting on one fiber and receiving on the second fiber. over in the cabling connects the local PMD transmitter to the link partner's PMI						
Hayashi, Takehiro HAT Lab., Inc.					and the link partner's PMD transmitter to the local PMD receiver. The PMD TX and PMD RX compose the PMD sublayer"						
Comment	Туре Е	Comment Status A		BASE-AU	RX CO	mpose the PMD	sublayer				
Chage	e "2.5GBASE-AU	" to "MultiGBASE-AU"			C/ 300	SC 300.1.4	P 73	L 42	# 351		
Suggested	Remedy				Swanson,	Steve	Corning Inc				
Chage	e "2.5GBASE-AU	" to "MultiGBASE-AU"			Comment	Туре Е	Comment Status A		EZ		
Response		Response Status C									
ACCE					Suggested	dRemedy					
The te	erm BASE-AU wil	I be used to refer to all PHYs.			Delete	e "…concrete…"					
					Response		Response Status C				
					ACCE	PT.					

C/ 300 SC 300.1.4

D 1.0 Comment Report

C/ 300 SC 300.1.4	P 73	L 48	# 305		CI 300	SC 300.1.4	P 74	L7	# 184		
Hayashi, Takehiro	HAT Lab., Inc.				Grow, Rob	ert	RMG Consu	Ilting, KDPOF			
Comment Type T position of PCS TX/RX a	Comment Status A and PMD TX/RX in the right s	de is wrong.		EZ		roduction to PC	Comment Status A				
SuggestedRemedy PMD TX/RX shall be lef Response ACCEPT.	t side of PMA and PCS TX/R) <i>Response Status</i> C	(shall be right	side of PMA.		this intr informa the RX a paylo doing b	oduction mixes ation in the desc path. Suggest ad data path ar efore getting in	late to each other. I persor top with bottom too much. ription might help, as well a ed alternate text for lines 6 t d PHD path because that is to too much detail of how it	Better separation (s describing the T) hrough 22 also intr helpful to underst	of xMII data from PHD (path before any of oduces the concept of and what the PCS is		
C/ 300 SC 300.1.4	P 73	L 48	# 306				data groupings.				
Hayashi, Takehiro Comment Type T PCS TX/RX looks like d	HAT Lab., Inc. <i>Comment Status</i> R etachable mechanical interfac	e like MDI			SuggestedRemedy The MultiGBASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in						
SuggestedRemedy					one or Block b On the	more Transmit ooundaries. transmit path, t	Blocks, and xMII frame boun he PCS repeatedly encodes	ndaries have no co 64-bits (8 octets)	rrelation to Transmit of the xMII data		
Response REJECT. This is a topology diagra	<i>Response Status</i> C am not indicating a particular i			stream using 64B/65B encoding (see 300.2.3.4). The encoded xMII data stream is also referred to as the payload. The physical layer control is organized into Physical Header Data (PHD), and the PHD is divided into a series of 20-bit long PHD Blocks. A PHD Block is placed in the Transmit Block after 80 64B/65B words of encoded data. The PHD Block is followed by 220 parity							
C/ 300 SC 300.1.4	P73	L 48	# 43		bits of	RS-FEC.					
Pérez-Aranda, Rubén	érez-Aranda, Rubén KDPOF				The sequence of 80 64B/65 encoded data words followed by a PHD block followed by RS- FEC parity is called an RS-FEC codeword. A Transmit Block holds 36 RS-FEC codewords.						
Also in line 49 SuggestedRemedy Per comment.	Comment Status A	hanged in the l	PHY of the right sid	EZ de.	and se to crea to reco PHD in monito	parates the pay te the xMII rece nstruct the PHD formation keep ring, Reed-Solo	e MultiGBASE-AU PCS erro oad from the control informa- ive data stream. A series o (see 300.2.3.3). the receiver clock aligned mon Forward Error Correcti- ee 300.2.3.6), and PAM2 ma	ation. The receive f received PHD blo with the transmitte on (RS-FEC) enco	d payload is decoded cks are concatenated r, and provides link ding (see 300.2.3.5),		
Response ACCEPT.	Response Status C				Response		Response Status C				
					ACCEPT IN PRINCIPLE. Combine with the re-structuring ideas in comments #52, #189, #54, #191, #192 and #195. "The BASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries. On the transmit path, the PCS repeatedly encodes the xMII data stream using 64B/65B encoding (see 166.2.3.4). The encoded xMII data stream is also referred to as the payload.						
							trol is organized into a block) is followed by the result of				
•	d ER/editorial required GR/go patched A/accepted R/reject	•		0		Z/withdrawn	CI S SC S	800 800.1.4	Page 36 of 62 15/05/2021 10:1		

182

D 1.0 Comment Report

encoded using an interleaved repetition code (see 166.2.3.3.4), which generates a sequence called encoded PHD. The encoded PHD is divided into a series of encoded PHD sub-blocks. Each encoded PHD sub-block is placed in the Transmit Block after a group of payload blocks. The resulting information blocks are encoded by a systematic RS-FEC code. A Transmit Block holds an entire number of RS-FEC codewords. A Transmit Block is scrambled with an additive scrambler before transmission. The scrambler uses an LFSR that is initialized to a pre-defined value at the beginning of each Transmit Block.

On the receive path, the BASE-AU PCS performs the additive de-scrambling, decodes received RS-FEC codewords, and separates the payload from the control information. The received payload is 64B/65B decoded to create the xMII receive data stream. A series of received PHD sub-blocks are concatenated and TRC decoded to reconstruct the PHD followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC calculation and, if it is correct, then it is fed to state diagrams. PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)."

CI 300	SC	300.1.4	P 74	L 8	# 44		
Pérez-Aranda, Rubén			KDPOF				
Comment 1	Гуре	т	Comment Status A		Modulation		
PAM term is not necessary for description.							

SuggestedRemedv

Replace: "using a series of fixed length blocks composed by 2-level pulse amplitude modulation (PAM2) symbols" with see using a series of fixed length binary blocks"

Response ACCEI	PT.	Response Status C		
C/ 300	SC 300.1.4	P 74	L 8	# 1
Grow, Rob	ert	RMG Consul	ting, KDPOF	-
Comment Name	51	Comment Status A 6 and Clause 106 do not use	underscore.	
<i>Suggested</i> Chang	2	C to TXD and TXC if the cur	rent text survives	comment.

Response Response Status C

ACCEPT.

C/ 300 SC 300.1.4 P74		L 9	# 308		
Hayashi, Ta	akehiro	HAT Lab., Ind	HAT Lab., Inc.		
Comment T	уре Е	Comment Status R			
Is there	any special rea	sons using capitals for the te	erm "Transmit Bl	ocks"?	
<i>SuggestedF</i> If not, u	Re <i>medy</i> ise lower casea.				
Response		Response Status C			
REJEC	T. It is a proper	name.			
CI 300	SC 300.1.4	P 74	L 9	# 328	
Abbott, Joh	in	Corning		-	
<i>Comment T</i> change	<i>ype</i> E PAM2 to NRZ	Comment Status A		PAM	
S <i>uggestedF</i> change	•	or explain they are the same			
Response ACCEP	ΥТ.	Response Status C			
C/ 300	SC 300.1.4	P 74	L13	# 45	
Pérez-Aran	ida, Rubén	KDPOF			
Comment T	<i>уре</i> т	Comment Status A			
		PHD is not intended for cloc DAM protocol, PHY control a	0		

SuggestedRemedy

ΕZ

Modify per comment.

Response Response Status C

ACCEPT IN PRINCIPLE. Substitute by "PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)" as stated in #184

C/ 300 SC 300.1.4

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments	

D 1.0 Comment Report

P 74 RMG Consulti nment Status A ransmit Block", it is red	L 15 ng, KDPOF	# 183		C/ 300		300.1.4	P 74	L 27	# 47	
nment Status A	ng, KDPOF									
				Pérez-Ara	nda, Ru	bén	KDPOF			
ansmit Block", it is red			ΕZ	Comment	Туре	т	Comment Status A			OAM
placed per other comn		next sentence.		specifi unnec	cation d essary.	lo referenc Also in lin	hould BASE-U OAM and spe ces C/115 to make easier ma e 30			g text
oonse Status C				00	-	•				
					CE BASE	E-H with E	6	ngiy.		
				•	DT		Response Status C			
P 74	L 21	# 46		ACCE	PI.					
KDPOF				C/ 300	SC 3	300.1.4	P74	L 27	# 185	
			Mux	Grow, Rob	pert		RMG Consulti	ng, KDPOF		
		tep). NRZ modu	lation	Comment	Туре	Е	Comment Status A	-	BA	ASE-AU
				AU PN which 50GM be cor	/IA). "X(is alread II differensistent i	GMII, 25G dy a probl ences but i in includin	MII or 50GMII) will become n em. I question if we will only f we are really committed to a g 50GBASE-AU as much as	nore tiresome th need one new c a single new cla	an the list of two lause because o use, then we sho	o of the
P 74	L 21	# 329		Suggested	Remed	v				
Corning nment Status A			PAM	The be a base 50GB/ more t	est thing eline for ASE-AU han just	to save e 50GBASE would be t a differer	E-AU, but it appears unlikely t the motiviation to have more at rate (e.g., different xMII wid	hat that will hap than one claus th, perhaps mul	pen for D1.1.II e because it will tiple lanes, etc.)	MO, be To
ain they are the same								-AU Instead of F	TTT types lists o	1
-				Response			Response Status C			
				ACCE	PT. Use	BASE-A	U instead of PHY types lists.			
				C/ 300	SC 3	300.1.4	P 74	L 33	# 186	
				Grow, Rob	pert		RMG Consulti	ng, KDPOF		
						E	Comment Status A	-		EZ
				88	-	•				
				•			Response Status C			
	mment Status A ary for the specification bits = 1 into optical pow ponse Status C	P74 L 21 KDPOF mment Status A ary for the specification (unnecessary sibits = 1 into optical power P0 and P1. bonse Status C P74 L 21 Corning mment Status A ain they are the same	P74L 21# 46 KDPOFmment Statusary for the specification (unnecessary step). NRZ modubits = 1 into optical power P0 and P1.conse StatusCP74L 21genment StatusAain they are the same	P74L21# 46KDPOFmment StatusAary for the specification (unnecessary step). NRZ modulation bits = 1 into optical power P0 and P1.bonse StatusCP74L21L21# 329 Corningmment StatusAPAMain they are the same	ponse Status C Replay P74 L21 # 46 KDPOF Mux ary for the specification (unnecessary step). NRZ modulation Grow, Rot bits = 1 into optical power P0 and P1. Mux ponse Status C The te and st P74 L21 # 329 Corning PAM mment Status A PAM Corning PAM ain they are the same PAM ponse Status C Response ACCE Cl 300 Grow, Rot Comment Suggested The be a base 50GB The be a base 50GB Grow, Rot Corning PAM ain they are the same PAM ponse Status C Response ACCE Cl 300 Grow, Rot Comment Grow, Rot Comment Grow, Rot Comment Grow, Rot Grow, Rot Comment Gram Suggested Start s Response Start s Response Start s <td>P74 L21 # 46 Replace BASE KDPOF Mux ACCEPT. mment Status A Mux ary for the specification (unnecessary step). NRZ modulation Grow, Robert bits = 1 into optical power P0 and P1. Mux ponse Status C Grow, Robert P74 L21 # 329 Corning P74 L21 P74 L21 # 329 Corning PAM ain they are the same PAM ponse Status C PAM ain they are the same PAM ponse Status C C/ 300 Status C C/ 300 SuggestedRemed The best thing a baseline for 50GBASE-AU more than just not defer this replace those Response ACCEPT. Use C/ 300 SC 3 Grow, Robert Comment Type Grammar SuggestedRemed C/ 300 SC 3</td> <td>P74 L21 # 46 KDPOF Mux ary for the specification (unnecessary step). NRZ modulation bits = 1 into optical power P0 and P1. Mux ponse Status C P74 L21 # 329 Corning The text seems to change and starting to use the line to solve of how 500 P74 L21 # 329 Corning PAM ain they are the same poonse Status C Donse Status C SuggestedRemedy The best thing to save of a baseline for 50GBASE-AU would be more than just a differer not defer this problem, prelace those terms corned the problem, prelace those terms corned to set the same poonse Status C (300 SC 300.1.4 Grow, Robert Comment Type E SuggestedRemedy The best thing to save of a baseline for 50GBASE-AU would be more than just a differer not defer this problem, prelace those terms corned to be to set to be to be</td> <td>ponse Status C P74 L21 # 46 KDPOF Mux ary for the specification (unnecessary step). NRZ modulation Mux ponse Status C Coming Coming mment Status A P74 L21 # 329 Coming Which is already a problem. I question if we will only will become m minent Status A PAM P74 L21 # 329 Corning Mux Sogestatus C Minent Status A PAM ain they are the same poonse Status C poonse Status C C ACCEPT. See and there is a problem. I question if we will only be to leave a baseline for 50GBASE-AU will work). SuggestedRemedy Stotal fort might be to leave a baseline for 50GBASE-AU will work). Side Status C ACCEPT. Use BASE-AU instead of PHY types lists. (7 300 SC 300.1.4 P74 Grow, Robert Response Status C ACCEPT. Use BASE-AU instead of PHY types lists. C Corning Corow, Robert Response Status</td> <td>ponse Status C P74 L21 # 46 KDPOF Mux any for the specification (unnecessary step). NRZ modulation Mux ponse Status C ponse Status C</td> <td>ponse Status C Replace BASE-H with BASE-U. Change text accordingly. KDPOF mment Status A Mux any for the specification (unnecessary step). NRZ modulation bits = 1 into optical power P0 and P1. Mux P74 L21 # 329 Corning Corning Sock Status A Mux P74 L21 # 329 Cordinal for the specification (unnecessary step). Feedomet Type E Comment Type View Sin (in lice) Sock Status C Corning Corning Sock Status A PAM ain they are the same poonse Status C SuggestedRemedy ain they are the same Corning Corning Sock Status C SuggestedRemedy ain they are the same Corning Corning Corning Corning Sock Status C ain they are the same Corning Corning Corning Corning Sock Status C ain they are the same Corning Corning Corning Corning Sock Status C SuggestedRemedy Corning Cornin</td>	P74 L21 # 46 Replace BASE KDPOF Mux ACCEPT. mment Status A Mux ary for the specification (unnecessary step). NRZ modulation Grow, Robert bits = 1 into optical power P0 and P1. Mux ponse Status C Grow, Robert P74 L21 # 329 Corning P74 L21 P74 L21 # 329 Corning PAM ain they are the same PAM ponse Status C PAM ain they are the same PAM ponse Status C C/ 300 Status C C/ 300 SuggestedRemed The best thing a baseline for 50GBASE-AU more than just not defer this replace those Response ACCEPT. Use C/ 300 SC 3 Grow, Robert Comment Type Grammar SuggestedRemed C/ 300 SC 3	P74 L21 # 46 KDPOF Mux ary for the specification (unnecessary step). NRZ modulation bits = 1 into optical power P0 and P1. Mux ponse Status C P74 L21 # 329 Corning The text seems to change and starting to use the line to solve of how 500 P74 L21 # 329 Corning PAM ain they are the same poonse Status C Donse Status C SuggestedRemedy The best thing to save of a baseline for 50GBASE-AU would be more than just a differer not defer this problem, prelace those terms corned the problem, prelace those terms corned to set the same poonse Status C (300 SC 300.1.4 Grow, Robert Comment Type E SuggestedRemedy The best thing to save of a baseline for 50GBASE-AU would be more than just a differer not defer this problem, prelace those terms corned to be to set to be	ponse Status C P74 L21 # 46 KDPOF Mux ary for the specification (unnecessary step). NRZ modulation Mux ponse Status C Coming Coming mment Status A P74 L21 # 329 Coming Which is already a problem. I question if we will only will become m minent Status A PAM P74 L21 # 329 Corning Mux Sogestatus C Minent Status A PAM ain they are the same poonse Status C poonse Status C C ACCEPT. See and there is a problem. I question if we will only be to leave a baseline for 50GBASE-AU will work). SuggestedRemedy Stotal fort might be to leave a baseline for 50GBASE-AU will work). Side Status C ACCEPT. Use BASE-AU instead of PHY types lists. (7 300 SC 300.1.4 P74 Grow, Robert Response Status C ACCEPT. Use BASE-AU instead of PHY types lists. C Corning Corow, Robert Response Status	ponse Status C P74 L21 # 46 KDPOF Mux any for the specification (unnecessary step). NRZ modulation Mux ponse Status C ponse Status C	ponse Status C Replace BASE-H with BASE-U. Change text accordingly. KDPOF mment Status A Mux any for the specification (unnecessary step). NRZ modulation bits = 1 into optical power P0 and P1. Mux P74 L21 # 329 Corning Corning Sock Status A Mux P74 L21 # 329 Cordinal for the specification (unnecessary step). Feedomet Type E Comment Type View Sin (in lice) Sock Status C Corning Corning Sock Status A PAM ain they are the same poonse Status C SuggestedRemedy ain they are the same Corning Corning Sock Status C SuggestedRemedy ain they are the same Corning Corning Corning Corning Sock Status C ain they are the same Corning Corning Corning Corning Sock Status C ain they are the same Corning Corning Corning Corning Sock Status C SuggestedRemedy Corning Cornin

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 300 Page 38 of 62 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 300.1.4 15/05/2021 10:13:21 SORT ORDER: Clause, Subclause, page, line

D 1.0 Comment Report

C/ 300	SC 300.1.4	P 74	L 38	# 48	(C/ 300	SC 300.
Pérez-Arai	nda, Rubén	KDPOF				Pérez-Ara	nda, Rubén
Comment	Туре Е	Comment Status A			EZ (Comment	Туре Т
specifi		escribed". I believe the stand descriptions. The PMA function			is		loopback ar . No adopte
	•				3	Suggested	-
Suggested	•	replace describing wording wit	h specifying w	ording whore		Add Ic	opback lines
approp		replace describing wording with	n specifying w	bruing, where	I	Response	
Response		Response Status C					PT IN PRIN the ToDo li
ACCE	PT.				(C/ 300	SC 300.
C/ 300	SC 300.1.4	P 74	L 38	# 187		Pérez-Ara	nda, Rubén
Grow, Rob	ert	RMG Consultin	g, KDPOF		(Comment	Туре Т
Comment [·] Bad ho	<i>Type</i> E ot link references	Comment Status A			EZ		PMD_RXDE
Suggested	Remedy				5	Suggested	dRemedy
	s 300.3, PMD is 3	300.6.				Add P	MD_RXDET
Response		Response Status C			I	Response	
ACCE	PT.						PT IN PRIN
CI 300	SC 300.1.4	P75	L	# 307	(C/ 300	SC 300.
Hayashi, T	akehiro	HAT Lab., Inc.				Grow, Rol	pert
Comment	Туре Т	Comment Status A				Comment	
Make t	he relations to P	HY sublayers more clear.					ubclause ha
Suggested	Remedy					lead to	ch shall to p o duplicate s ntroduction (
Response		Response Status C			5	Suggested	dRemedv
not inte		E. XMII/25GMII/50GMII sublay PCS, so upper line cannot be ir PMA			do	Review	w that pointe ve the shall fi
Sy are					I	Response	
							PT IN PRIN

C/ 300	SC 300.1.4	P75	L 11	# 49			
Pérez-Arar		F 73		# 49			
	,	Comment Status		Loopbook and toot madea			
Comment 7			-	Loopback and test modes			
	No adopted yet		oopback modes a	are very demanded by			
Suggested	Remedy						
Add loc	opback lines as p	lace holder. Add entry	/ to TODO list to o	define them.			
Response		Response Status	C				
		E. Use 115 similar figu get the specification o		oback arrows. Add a ToDo			
C/ 300	SC 300.1.4	P 75	L 32	# 50			
Pérez-Arar	ida, Rubén	KDPO	=				
Comment 7	Гуре Т	Comment Status	A				
		T.indication in the PM ndependent of LPI sp		e. It is very common to			
Suggested	Remedy						
Add PN	ID_RXDETECT.	indication.					
Response		Response Status	C				
		E. Although there is no d in all optical PHYs.		doption, this primitive is TECT.indication.			
CI 300	SC 300.2.1	P 76	L 14	# 189			
Grow, Rob	ert	RMG C	Consulting, KDPO	F			
Comment 1	<i>Туре</i> Т	Comment Status		Position of shall statements			
This subclause has a number of shalls that are only linked to pointers. Generally, we strive for each shall to produce one PICS item, and this separation from the specificatons can lead to duplicate shalls. The shall should typically be placed with the technical details, not in an introduction (overview) like these single sentence "shall" with reference.							
Suggested	Remedy						
	•	subclauses have an eo nese pointer sentence	•	ement if relevant and			
Response		Response Status	C				
•	PT IN PRINCIPLI	•					

This text wil be changed per comment #184 and #52, but shall statements will be included in the originally pointed subclases

C/ 300 SC 300.2.1

IEEE 802.cz Multi-Gig Aut	IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/ 300	SC	300.2.1	P 76	L 14	# 188		Cl 300	SC 300.2.1	P 76	L 17	# 53
Grow, Ro	obert		RMG Consul	ting, KDPOF			Pérez-Ara	nda, Rubén	KDPOF		
Comment Typo		E	Comment Status A			ΕZ	Comment PHD t	51	Comment Status A th no change of definition.		Terminology
Suggeste XMII		•	ve decide to use xMII instea	d of a list).			Suggested Amen	•	ical header data (PHD) accor	dingly.	
Response ACCI			Response Status C				Response ACCE	PT IN PRINCI	Response Status C PLE. Amend in 1.4.389 defini	tion a reference to	o Clause 166.
C/ 300	SC	300.2.1	P 76	L15	# 190						
Grow, Ro	obert		RMG Consul	ting, KDPOF							
Comment Fewe	51	E often is be	Comment Status A etter.			EZ					
<i>Suggeste</i> Delet	edReme ie "by".	dy									
Response ACCI			Response Status C								
C/ 300	SC	300.2.1	P 76	L15	# 51						
Pérez-Ar	anda, R	lubén	KDPOF								
Comment	t Type	т	Comment Status A		Termi	nology					
term bits u mear enco beca	PDB is used to e ning is d ded fror	defined in encode the lifferent of t n 8 GMII tra h codes are	bided in the baseline, howev 1.4.388 as physical data blo GMII data stream. (See IEE the one used in C/300. PDBs ansfers (64 bits as well!). Us a 64B/65B.	ck (PDB): The mi E Std 802.3, Cla s in C/115 are 65 sing PDB in C/300	nimum data unit o use 115.). ﷺThe bit length and are) will create confu	of 65					
Suggeste	dReme	dy									
			other terms (see C/55, C/149 ay use PCS 65B blocks, 65-								
Response	е		Response Status C								
ACCI	EPT IN	PRINCIPLI	E. Replace PDB by "65-bit b	lock" as used in o	other clauses of 8	02.3					

C/ 300 SC 300.2.1

D 1.0 Comment Report

CI 300	SC 300.2.1	P 76	L17	# 52
Pérez-Arand	la, Rubén	KDPOF		
Comment Ty	rpe T	Comment Status A		Terminology

"portion of the coded PHD called PHD block". Lack of clarity.

SuggestedRemedy

Introduce a paragraph before the PHD is and how is encoded and split in portions. Then use the introduced terminology in the the commented paragraph to explain the 20-bit PHD encoded sub-blocks are appended to 80 65-bit blocks.

Response Response Status C

ACCEPT IN PRINCIPLE. The commenter will provide a paragraph describing PHD related terminology.

"The BASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries. On the transmit path, the PCS repeatedly encodes the xMII data stream using 64B/65B encoding (see 166.2.3.4). The encoded xMII data stream is also referred to as the payload.

The physical layer control is organized into a block called Physical Header Data (PHD) (see Table 166-2). The PHD is followed by the result of CRC calculation. The resulting block is encoded using an interleaved repetition code (see 166.2.3.3.4), which generates a sequence called encoded PHD. The encoded PHD is divided into a series of encoded PHD sub-blocks. Each encoded PHD sub-block is placed in the Transmit Block after a group of payload blocks. The resulting information blocks are encoded by a systematic RS-FEC code. A Transmit Block holds an entire number of RS-FEC codewords. A Transmit Block is scrambled with an additive scrambler before transmission. The scrambler uses an LFSR that is initialized to a pre-defined value at the beginning of each Transmit Block.

On the receive path, the BASE-AU PCS performs the additive de-scrambling, decodes received RS-FEC codewords, and separates the payload from the control information. The received payload is 64B/65B decoded to create the xMII receive data stream. A series of received PHD sub-blocks are concatenated and TRC decoded to reconstruct the PHD followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC calculation and, if it is correct, then it is fed to state diagrams. PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)."

CI 300 S	C 300.2.1	P 76	L 17	# 191
Grow, Robert		RMG Consulting,	KDPOF	

Comment Type E Comment Status A

The words "appended by" should be improved. Append is ambiguous, it means attached to, but only usually attached at the end. This is a recurring problem in the draft. In some cases order should not be ambiguous but in other cases where something is appended doesn't matter.

SuggestedRemedy

Search on "append" (not full word) and replace if point of information being appended matters. For example, this case, with suitable addional clarification might appropriately read: "Each sequence of 80 PDBs is followed by a 20-bit PHD block..."

Response Response Status C

ACCEPT IN PRINCIPLE. The commented text will be substituted if #184 response is accepted by TF.

"The BASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries. On the transmit path, the PCS repeatedly encodes the xMII data stream using 64B/65B encoding (see 166.2.3.4). The encoded xMII data stream is also referred to as the payload.

The physical layer control is organized into a block called Physical Header Data (PHD) (see Table 166-2). The PHD is followed by the result of CRC calculation. The resulting block is encoded using an interleaved repetition code (see 166.2.3.3.4), which generates a sequence called encoded PHD. The encoded PHD is divided into a series of encoded PHD sub-blocks. Each encoded PHD sub-block is placed in the Transmit Block after a group of payload blocks. The resulting information blocks are encoded by a systematic RS-FEC code. A Transmit Block holds an entire number of RS-FEC codewords. A Transmit Block is scrambler before transmission. The scrambler uses an LFSR that is initialized to a pre-defined value at the beginning of each Transmit Block.

On the receive path, the BASE-AU PCS performs the additive de-scrambling, decodes received RS-FEC codewords, and separates the payload from the control information. The received payload is 64B/65B decoded to create the xMII receive data stream. A series of received PHD sub-blocks are concatenated and TRC decoded to reconstruct the PHD followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC calculation and, if it is correct, then it is fed to state diagrams. PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)."

C/ 300 SC 300.2.1 Page 41 of 62 15/05/2021 10:13:21

192

D 1.0 Comment Report

Grow, Robert

C/ 300

P76 RMG Consulting, KDPOF

L21

Comment Type Ε Comment Status A

SC 300.2.1

"resulting bits" of what? Is it referring to the PDB and PHD block bits of a transmit block?

SugaestedRemedv

Clarify. If I understand correctly: "The resulting 5220 bits (80 PDBs plus PHD block) are..."

Response

ACCEPT IN PRINCIPLE. The commented text will be substituted if #184 response is accepted by TF.

Response Status C

"The BASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries. On the transmit path, the PCS repeatedly encodes the xMII data stream using 64B/65B encoding (see 166.2.3.4). The encoded xMII data stream is also referred to as the payload.

The physical layer control is organized into a block called Physical Header Data (PHD) (see Table 166-2). The PHD is followed by the result of CRC calculation. The resulting block is encoded using an interleaved repetition code (see 166.2.3.3.4), which generates a sequence called encoded PHD. The encoded PHD is divided into a series of encoded PHD sub-blocks. Each encoded PHD sub-block is placed in the Transmit Block after a group of payload blocks. The resulting information blocks are encoded by a systematic RS-FEC code. A Transmit Block holds an entire number of RS-FEC codewords. A Transmit Block is scrambled with an additive scrambler before transmission. The scrambler uses an LFSR that is initialized to a pre-defined value at the beginning of each Transmit Block.

On the receive path, the BASE-AU PCS performs the additive de-scrambling, decodes received RS-FEC codewords, and separates the payload from the control information. The received payload is 64B/65B decoded to create the xMII receive data stream. A series of received PHD sub-blocks are concatenated and TRC decoded to reconstruct the PHD followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC calculation and, if it is correct, then it is fed to state diagrams. PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)."

Cl 300	SC 300.2.1	P 76	L 21	# 54
Pérez-Arano	la, Rubén	KDPOF		

Comment Type T Comment Status A

Galois field is not indicated, and needs to be deducted from the parity length.

SugaestedRemedv

"The resulting 5220 information bits shall be encoded using an RS-FEC (544.522) code over Galois Field 2¹0 as specified in 300.2.3.5." With editorial license.

Response Response Status C

ACCEPT IN PRINCIPLE. The commented text will be substituted if #184 response is accepted by TF.

"The BASE-AU PCS manages interleaving of xMII data streams with physical layer control information. The fixed-length Transmit Block provides the structure for time division multiplexing these two streams of information. A frame from the xMII can be contained in one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries. On the transmit path, the PCS repeatedly encodes the xMII data stream using 64B/65B encoding (see 166.2.3.4). The encoded xMII data stream is also referred to as the payload.

The physical layer control is organized into a block called Physical Header Data (PHD) (see Table 166-2). The PHD is followed by the result of CRC calculation. The resulting block is encoded using an interleaved repetition code (see 166.2.3.3.4), which generates a sequence called encoded PHD. The encoded PHD is divided into a series of encoded PHD sub-blocks. Each encoded PHD sub-block is placed in the Transmit Block after a group of payload blocks. The resulting information blocks are encoded by a systematic RS-FEC code. A Transmit Block holds an entire number of RS-FEC codewords. A Transmit Block is scrambled with an additive scrambler before transmission. The scrambler uses an LFSR that is initialized to a pre-defined value at the beginning of each Transmit Block.

On the receive path, the BASE-AU PCS performs the additive de-scrambling, decodes received RS-FEC codewords, and separates the payload from the control information. The received payload is 64B/65B decoded to create the xMII receive data stream. A series of received PHD sub-blocks are concatenated and TRC decoded to reconstruct the PHD followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC calculation and, if it is correct, then it is fed to state diagrams, PHD information exchange with the link partner provides bi-directional link monitoring, PHY control, capabilities announcement, and BASE-AU OAM message communication. (See Table 166-2)."

C/ 300 SC 300.2.1 Page 42 of 62 15/05/2021 10:13:21

IEEE 802.cz Multi	-Gig Aut IEEE P802.3	cz D1.0 Multi-	-Gig Automotive	Optical	I Ethernet I	PHY 1st Task	Force review comments	D	1.0 Comment Report
C/ 300 SC 300.2.	1 P 76	L 23	# 193		C/ 300	SC 300.2.1	P76	L 26	# 330
Grow, Robert	RMG Consulti	ng, KDPOF			Abbott, Joł	าท	Corning		
things) is: "inform SuggestedRemedy	Comment Status A 'and they conform". One incorrect ation bits. The 220 parity bits fo	rm an RS-FEC Ò	as I understand Codeword (CW)."	EZ	Suggested	PAM2 to NRZ Remedy	Comment Status A		PAM
"The 80 PDBs, PHL Response ACCEPT.	block, and 220 parity bits form a <i>Response Status</i> C	an RS-FEC Code	eword (CW)."		Response ACCE		Response Status C		
Cl 300 SC 300.2. Grow, Robert Comment Type E This paragraph mixe SuggestedRemedy	RMG Consulti Comment Status A	L 25 ng, KDPOF	# <u>194</u>	EZ	Suggested	Type E PAM2 to NRZ (Remedy	· · · ·	L 28	# <u>331</u> PAM
	ntence in the previous paragraph Response Status C				change <i>Response</i> ACCEF		or explain they are the same <i>Response Status</i> C		
C/ 300 SC 300.2. Pérez-Aranda, Rubén	1 <i>P</i> 76 KDPOF	L 25	# 55						
Comment Type T PAM2 mapping step	Comment Status A	ation.	Modulat	tion					
SuggestedRemedy									

"A concatenation of 36 consecutive CW shall be scrambled by the binary additive scrambler specified in 300.2.3.6. The Transmit Block is the sequence of the resulting 195840 bits. One bit shall be transmitted per symbol period."

Response

Response Status C

ACCEPT IN PRINCIPLE. "A concatenation of 36 consecutive CW shall be scrambled by the binary additive scrambler specified in 300.2.3.6. The Transmit Block is the sequence of the resulting 195840 bits."

C/ 300 SC 300.2.1 Page 43 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

DF E per names (capitalization). PCS Transmit when it is italization). search will show that # 332
per names (capitalization). PCS Transmit when it is italization). search will show that
PCS Transmit when it is italization).
italization). search will show that
332
332
332
332
PAN
56
Modulation
۱.
- -

PMA receive function is intended to implement sync, timing recovery, equalization, symbols detection (bits detection in case of NRZ).

SuggestedRemedy

"The PCS Receive function comprises the binary descrambling," or equivalent.

Response Response Status C

ACCEPT IN PRINCIPLE. Accept the first proposalin the suggested remedy.

followed by a CRC (see 166.2.3.3). PHD information reliability is checked by CRC

with the link partner provides bi-directional link monitoring, PHY control, capabilities

announcement, and BASE-AU OAM message communication. (See Table 166-2)."

calculation and, if it is correct, then it is fed to state diagrams. PHD information exchange

C/ 300 SC 300.2.1

D 1.0 Comment Report

CI 300	SC 300.2.1	P 77	L 35	# 61	C/ 300	SC 300.2.1	P 77	L 35	# 60
Pérez-Aranda	a, Rubén	KDPOF			Pérez-Arar	nda, Rubén	KDPOF		
Comment Typ	pe T	Comment Status A		Modulation	Comment	Туре Т	Comment Status A		
NRZ map	pping, PAM2 n	istency and because it is not napping block should be elim		n extra step in PMD of	the Tra	ansmit Block, be	scrambler uses a PRBS gr cause it is intended to be u aining purposes before link	used as pre-knowi	n data for
S <i>uggestedRel</i> Remove b		apt terminology.			additive	e scrambler is a	self-contained block to ave and it should be mod-2 or x	oid the idea of fre	e running PRBS.
Response		Response Status C			are inte	ended to indicate	e ordering, a simple box sh	ould be good end	ough.
	IN PRINCIPL	E. itute in Figure 300-4 PAM2_0	0 by bit_0		Suggested Remov	•	blace scrambler with a sing	le box as in the ba	aseline.
C/ 300	SC 300.2.1	P 77	L 35	# 58	Response		Response Status C		
Pérez-Aranda		KDPOF			ACCE	PT.			
Comment Typ	pe T	Comment Status A		Terminology	C/ 300	SC 300.2.1	P78	L 1	# 62
Fiaure 30	00-4. PDB tern	ns to be removed.			Pároz_∆rar	nda, Rubén	KDPOF		
5					T CICZ-Ala				
U	emedy				Comment 7		Comment Status A		Modulatio
0	-				Comment	Туре Т	Comment Status A omments to Figure 300-4, a	about PDBs, PAM	
SuggestedRe Per comm Response	ment	Response Status C E. Substitute 65B PDB by 65	5-bit block.		Comment T Figure Suggested	<i>Type</i> T 300-5. Same co		about PDBs, PAM	
SuggestedRe Per comm Response ACCEPT	IN PRINCIPL	<i>Response Status</i> C E. Substitute 65B PDB by 65		# 59	Comment T Figure Suggested	Type T 300-5. Same co Remedy		about PDBs, PAM	
SuggestedRe Per comm Response ACCEPT	IN PRINCIPL	Response Status C E. Substitute 65B PDB by 65 P 77	5-bit block. L 35	# 59	Comment T Figure Suggested Per co Response	<i>Type</i> T 300-5. Same co <i>Remedy</i> mment.	omments to Figure 300-4, a		2 and descrambler.
SuggestedRe Per comm Response ACCEPT C/ 300	ment IN PRINCIPL SC 300.2.1 a, Rubén	Response Status C E. Substitute 65B PDB by 65 P 77 KDPOF			Comment 7 Figure Suggested Per co Response ACCEF	Type T 300-5. Same co <i>Remedy</i> mment. PT IN PRINCIPI	omments to Figure 300-4, a Response Status C	block in line 15, r	2 and descrambler. emove PAM2
SuggestedRe Per comm Response ACCEPT C/ 300	ment IN PRINCIPL SC 300.2.1 a, Rubén pe E	Response Status C E. Substitute 65B PDB by 65 P 77 KDPOF Comment Status A	L 35	Terminology	Comment 7 Figure Suggested Per co Response ACCEF	Type T 300-5. Same co <i>Remedy</i> mment. PT IN PRINCIPI	mments to Figure 300-4, a Response Status C .E. Replace PDB by 65-bit	block in line 15, r	2 and descrambler. emove PAM2
SuggestedRei Per comm Response ACCEPT C/ 300 Pérez-Aranda Comment Typ PHD bloc	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge	Response Status C E. Substitute 65B PDB by 65 P 77 KDPOF	L 35	Terminology	Comment T Figure Suggested Per con Response ACCER demap	Type T 300-5. Same co <i>Remedy</i> mment. PT IN PRINCIPI ping box and re	mments to Figure 300-4, a <i>Response Status</i> C .E. Replace PDB by 65-bit place the adder and descra	block in line 15, r ambler by a simpl	2 and descrambler. emove PAM2 e descrambler box.
SuggestedRe Per comm Response ACCEPT C/ 300 S Pérez-Aranda Comment Typ PHD bloc SuggestedRe	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy	Response Status C E. Substitute 65B PDB by 65 P 77 KDPOF Comment Status A ether with 20-bit PHD block. A	L 35 Ambiguity can be	Terminology	Comment T Figure Suggested Per con Response ACCER demap	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén	Response Status C LE. Replace PDB by 65-bit place the adder and descra	block in line 15, r ambler by a simpl	2 and descrambler. emove PAM2 e descrambler box.
SuggestedRe Per comm Response ACCEPT Cl 300 Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal: 0 to indicate the	Response Status C E. Substitute 65B PDB by 68 P77 KDPOF Comment Status A ether with 20-bit PHD block. A ock with 20-bit encoded PHD e chunck of binary informatic	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300-	<i>Terminology</i> produced.	Comment T Figure Suggested Per col Response ACCE demap C/ 300 Pérez-Aran Comment T Figure	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit	2 and descrambler. emove PAM2 e descrambler box. # <u>63</u> <i>Transmit Block sync</i>
SuggestedRe Per comm Response ACCEPT Cl 300 Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD Use enco	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal:) to indicate th oded PHD for t	Response Status C E. Substitute 65B PDB by 65 P77 KDPOF Comment Status A ether with 20-bit PHD block. A	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300- id encoded.	<i>Terminology</i> produced. 2.	Comment T Figure Suggested Per cou Response ACCER demap Cl 300 Pérez-Arar Comment T Figure functio Transm	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM n of PCS sublay nit block synchro	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF <i>Comment Status</i> A <i>M</i> A service interface define ver or it belongs to PMA su ponization and timing recover	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit blayer? ery need to be imp	2 and descrambler. emove PAM2 e descrambler box. # <u>63</u> <i>Transmit Block sync</i> block synchronization a
SuggestedRe Per comm Response ACCEPT Cl 300 S Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD Use enco Use 20-bi Response	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal: 0 to indicate th oded PHD for t it encoded PH	Response Status C E. Substitute 65B PDB by 65 P77 KDPOF Comment Status A ether with 20-bit PHD block. A ock with 20-bit encoded PHD e chunck of binary informatic the PHD being interleaved ar	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300- id encoded.	<i>Terminology</i> produced. 2.	Comment T Figure Suggested Per cou Response ACCER demap Cl 300 Pérez-Arar Comment T Figure functio Transm	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM n of PCS sublay nit block synchro function level of	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF <i>Comment Status</i> A MA service interface define ver or it belongs to PMA su	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit blayer? ery need to be imp	2 and descrambler. emove PAM2 e descrambler box. # <u>63</u> <i>Transmit Block sync</i> block synchronization a
SuggestedRe Per comm Response ACCEPT C/ 300 Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD Use enco Use 20-bi	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal: 0 to indicate th oded PHD for t it encoded PH	Response Status C E. Substitute 65B PDB by 65 P77 KDPOF Comment Status A ether with 20-bit PHD block. A bock with 20-bit encoded PHD e chunck of binary informatic the PHD being interleaved ar ID sub-block for the sub-bloc	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300- id encoded.	<i>Terminology</i> produced. 2.	Comment T Figure Suggested Per con Response ACCER demap Cl 300 Pérez-Arar Comment T Figure functio Transn receive	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM n of PCS sublay nit block synchro- e function level co ed bits.	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF <i>Comment Status</i> A <i>M</i> A service interface define ver or it belongs to PMA su ponization and timing recover	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit blayer? ery need to be imp	2 and descrambler. emove PAM2 e descrambler box. # <u>63</u> <i>Transmit Block sync</i> block synchronization a
SuggestedRe Per comm Response ACCEPT Cl 300 S Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD Use enco Use 20-bi Response	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal: 0 to indicate th oded PHD for t it encoded PH	Response Status C E. Substitute 65B PDB by 65 P77 KDPOF Comment Status A ether with 20-bit PHD block. A bock with 20-bit encoded PHD e chunck of binary informatic the PHD being interleaved ar ID sub-block for the sub-bloc	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300- id encoded.	<i>Terminology</i> produced. 2.	Comment T Figure Suggested Per col Response ACCER demap Cl 300 Pérez-Arar Comment T Figure functio Transm receive detecte Suggested For sal	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM n of PCS sublay nit block synchro e function level of ed bits. Remedy	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF <i>Comment Status</i> A <i>M</i> A service interface define ver or it belongs to PMA su ponization and timing recover	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit blayer? ery need to be imp . PMA receive fun	2 and descrambler. emove PAM2 e descrambler box. # 63 <i>Transmit Block sync</i> block synchronization a blemented at PMA iction will provide the
SuggestedRe Per comm Response ACCEPT C/ 300 S Pérez-Aranda Comment Typ PHD bloc SuggestedRe Replace 2 General p Use PHD Use enco Use 20-bi Response	TIN PRINCIPL SC 300.2.1 a, Rubén pe E ck is used toge emedy 20-bit PHD blc proposal: 0 to indicate th oded PHD for t it encoded PH	Response Status C E. Substitute 65B PDB by 65 P77 KDPOF Comment Status A ether with 20-bit PHD block. A bock with 20-bit encoded PHD e chunck of binary informatic the PHD being interleaved ar ID sub-block for the sub-bloc	<i>L</i> 35 Ambiguity can be sub-block. on per Table 300- id encoded.	<i>Terminology</i> produced. 2.	Comment T Figure Suggested Per col Response ACCER demap Cl 300 Pérez-Arar Comment T Figure functio Transm receive detecte Suggested For sal	Type T 300-5. Same co Remedy mment. PT IN PRINCIPL ping box and re SC 300.2.1 nda, Rubén Type T 300-5. Is the PM n of PCS sublay nit block synchro- e function level co ed bits. Remedy ke of simplicity,	<i>Response Status</i> C LE. Replace PDB by 65-bit place the adder and descra <i>P</i> 78 KDPOF <i>Comment Status</i> A MA service interface define ver or it belongs to PMA su combined with equalization	block in line 15, r ambler by a simpl <i>L</i> 33 d? Is the transmit blayer? ery need to be imp . PMA receive fun	2 and descrambler. emove PAM2 e descrambler box. # 63 <i>Transmit Block sync</i> block synchronization a blemented at PMA iction will provide the

TYPE: TR/technical required ER/editorial required GR/generation	al required T/technical E/editorial G/general	C/ 300	Page 45 of 62
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 300.2.1	15/05/2021 10:13:21
SORT ORDER: Clause, Subclause, page, line			

D 1.0 Comment Report

C/300 SC 300.2.1 P79 L1 # 64	C/ 300 SC 300.2.2	P 76	L 48	# 57
Pérez-Aranda, Rubén KDPOF	Pérez-Aranda, Rubén	KDPOF		
Comment Type T Comment Status R	Comment Type E Co	omment Status A		Re-structure tex
Figure 300-6. It is an Interleaved TRC. TRC is the inner code in a concatenation of 2 codes (TRC and RS). Interleaving exists because the TRC parity for each information bit is transmitted in different codewords of outer code, i.e. the RS. Other repetition schemes may be defined w/o interleaving, therefore w/o inner code gain	Why control characters toget The clause 300.2.2 should no subscript in the above labels characters from the XGMII of previous paragraph, i.e. what	ot be split by the figures indicates 49 the positio r 25GMII transfer(s)" is r	300-4 through 3 an of the charact	300-6. Text like "The er in the eight
SuggestedRemedy	SuggestedRemedy			
Add "Interleaved" per baseline.	Move definition to subclause	s where they are used.		
Response Response Status C	Response Res	sponse Status C		
REJECT.	ACCEPT.			
Interleaving is already specified in the transmission ordering.	- C/ 300 SC 300.2.2	P77	L 41	# 333
C/ 300 SC 300.2.1 P79 L 29 # 65	Abbott, John	Corning	241	" 000
Pérez-Aranda, Rubén KDPOF		omment Status A		PAN
Comment Type T Comment Status A	change PAM2 to NRZ in Figu			FAN
No clear the function of PHD block ordering. The output is the same of the input and it is	с с	are 500-4 (multiple)		
not clear how the PHD sub-block are transmitted into the complete Transmit Block.	SuggestedRemedy			
SuggestedRemedy	change PAM2 to NRZ			
In the bottom line indicates the CWs as RS-FEC CWs (the same of Figure 300-4). For		sponse Status C		
each rectangle split in two, the left one wider with 65-bit blocks, and the right one narrow with the 20-bit PHD encoded sub-blocks. Then, add arrows from the encoded PHD line	ACCEPT.			
bottom line to indicate order. Replace "PHD block ordering" with "PCS transmit orderi	C/ 300 SC 300.2.2.	P 78	L 41	# 334
since it is the general one.	Abbott, John	Corning		
Response Response Status C	,	omment Status A		PAN
ACCEPT IN PRINCIPLE. Proposed modification adds clarity to the figure and decreases ambiguity.	change PAM2 to NRZ in Figu			
Proposed modification and clarity to the lighte and decreases amonguity.	SuggestedRemedy			
	change PAM2 to NRZ			
	Ũ	ananaa Statua C		
		sponse Status C		
	ACCEPT.			

C/ 300 SC 300.2.2.

IEEE 8	802.cz Multi-G	ig Aut IEEE P802.3	3cz D1.0 N	lulti-Gig Automotive	e Optical	Ethernet	PHY 1st Task	Force review comm	ents D	1.0 Comment Report
C/ 300	SC 300.2.3	P 79	L	# 67		CI 300	SC 300.2.3.2	P 80	L 25	# 335
Pérez-Ara	anda, Rubén	KDPOF				Abbott, Jo	hn	Corning		
refere	is no shall staten	Comment Status A nent for the transmit ordering ement is necessary to unam ne with equations if it is app	biguously de			Suggested	e PAM2 to NRZ ii	Comment Status A		РАМ
Suggeste	dRemedy					0				
Per co	omment.					Response		Response Status C		
Response	2	Response Status C				ACCE	PI.			
	EPT IN PRINCIPL r #189, the shall s	E. statement will be placed at th	ne lowest hier	archy level possible.		C/ 300	SC 300.2.3.3. nda, Rubén	1 <i>P</i> 80 KDPOF	L 52	# 69
C/ 300	SC 300.2.3.1	P 79	L 42	# 68		Comment	-	Comment Status A		Cross Reference
	anda, Rubén	KDPOF				Refere	ence to C/115 for	fix-point. It should be define the references to C/115, w		or by reference to
	51	Comment Status A 300-7 PCS transmit functio consistency.	n, this clause	should be "Payload da	<i>EZ</i> ita	Suggested				.,
Suggestee Do it e	•	ng block diagram, text or bo	th.			Response ACCE		Response Status C		
Response		Response Status C be changed to match the Fig	ure 300-7			C/ 300	SC 300.2.3.3.	1 <i>P</i> 81	L1	# 70
						Pérez-Ara	nda, Rubén	KDPOF		
C/ 300	SC 300.2.3.2		L 21	# 66		Comment	Туре Т	Comment Status A		OAM
<i>Comment</i> Whicł orderi	n block is perform	KDPOF Comment Status A ing the TX ordering? The mu architectural point of view, b			Mux	specif unnec <i>Suggestec</i>	ication do referen essary	bility should be BASE-U C ces C/115 to make easier		
Suggeste	dRemedy					Response		Response Status C		
Repla	ce "TRC encoder	' with "Interleaved TRC enco Iltiplexer with "TX transmit o			e.	ACCE				
Response		Response Status C	0	Ū.						
No ins Remo Repla Move Add n	ve "PHD Block or ice multiplexer wit 300.2.3.2 before ew subclause for mit Block, which i	E. ved" concept per #64. dering". h "PCS transmit ordering".								

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

C/ 300 SC 300.2.3.3.1 Page 47 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

C/ 300 SC 300.2.3.3	.1 <i>P</i> 81	L 24	# 309	C/ 300	SC 300.2.3.3	3.2 P 83	L 11	# 73	
Hayashi, Takehiro	HAT Lab., Inc.			Pérez-Ara	inda, Rubén	KDPOF			
Comment Type E	Comment Status A			EZ Comment	Туре Т	Comment Status A			Mu
add the reference of "F	HD reception monitor state dia	agram"				point of view, the step numb	er 4 does not belo	ong to the physical	
SuggestedRemedy						outside. Also in line 15.			
add (see 3.4.5)				Suggester					
Response ACCEPT.	Response Status C			should	d include shall st	g outside, specified before F atements for the transmit or y Figure 300-8 accordingly.			ıf
C/ 300 SC 300.2.3.3	.1 <i>P</i> 81	L 30	# 310	Response		Response Status C			
Hayashi, Takehiro	HAT Lab., Inc.	200	" [510		PT IN PRINCIPI	LE.			
Comment Type E	Comment Status A			See # EZ Add n		r PCS transmit ordering and	introduce the cor	cept of start of	
use the ssame the refe					mit Block, which	information composes the I			
SuggestedRemedy change 300.3.5 to 300.	3.5.3			CI 300	SC 300.2.3.3	3.3 P 83	L 32	# 74	
Response	Response Status C			Pérez-Ara	inda, Rubén	KDPOF			
ACCEPT.				Comment No ex	<i>Type</i> T tra. It is after TR	<i>Comment Status</i> A C decoding.			E.
C/ 300 SC 300.2.3.3	.1 <i>P</i> 82	L 50	# 71	Suggester	dRemedy				
Pérez-Aranda, Rubén	KDPOF			Repla	ce with: "The 224	4 PHD bits from PHD Builde	er are appended w	ith 16 cyclic	
Comment Type T	Comment Status A			redun	dancy check bits	(CRC16) for error detection	n capability after T	RC decoding."	
Per baseline it is not co	rrect. Also in line 51			Response		Response Status C			
SuggestedRemedy				ACCE	PT.				
Change to: "… and vali codeword of the next re	dation of the entire PHD and be	efore the deco	ding of first RS-FEC	01 300	SC 300.2.3.3		L 3	# 75	
Response	Response Status C				inda, Rubén	KDPOF			EZ
ACCEPT.				<i>Comment</i> TRC i	<i>Type</i> T s not systematic	Comment Status A code.			E
300 SC 300.2.3.3	.2 P 83	L7	# 72	Suggester					
Pérez-Aranda, Rubén	KDPOF			00	ve "systematical	ly"			
Comment Type T CRC code is not "extra	<i>Comment Status</i> A ', it is the only error detection of	capability after	TRC decoding.	EZ Response ACCE		Response Status C			
SuggestedRemedy Remove "extra"									
	Response Status C								
Response									

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

Cl 300	Page 48 of 62
SC 300.2.3.3.4	15/05/2021 10:13:21

D 1.0 Comment Report

	_	5		- 0	-
C/ 300	SC 300.2.3.3	.5 <i>P</i> 84	L11	# 76	
Pérez-Arano	da, Rubén	KDPOF			
Comment T	ype T	Comment Status A			Mux
	n architectural p data path, it is o	oint of view, the step numb outside.	er 4 does not be	long to the physical	
SuggestedR	Remedy				
	nclude shall sta	outside, specified before F atements for the transmit or			f
Response		Response Status C			
introduc	e the concept o	E. See #66. Add new subc f start of Transmit Block, w how it is ordered.		•	
Cl 300	SC 300.2.3.4	.2 P 85	L1	# 311	
Hayashi, Ta	akehiro	HAT Lab., I	nc.		
Comment T	ype E	Comment Status A			
Hard to	understand Fig	300-10.			
	-	data block format part and resent bits.	control block for	mat part, then add 63	3
Response		Response Status C			
ACCEP	T IN PRINCIPL	E. Add short lines in the up	per part of the co	ell.	
C/ 300	SC 300.2.3.4	.9 <i>P</i> 87	L 24	# 77	
Pérez-Arano	da, Rubén	KDPOF			
Comment T	ype T	Comment Status A		FEC decoder	error
symbols	s error correctio	nas 2·t 10-bit RS symbols e n capability.╦RS-FEC erro ks.╦This will improve the N	r detection shall	be used to flag /E/ fo	
SuggestedR	Remedy				
Add sha	all statement ac	cordingly.			
Response		Response Status C			
The add decoder "The de during F correcte	r. See #91: scrambled bits RS-FEC decodii ed, the resulting	E. Il statement shall be done i are RS-FEC decoded, with ng it is detected that a code bits belonging to that code 5-bit blocks with the flag /E/	error correction word contains en word shall be ma	and error detection. I rors that could not be	
		d ER/editorial required GF		d T/technical E/edit	

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

Cl 300	SC 3	800.2.3.4.10	P 87	7	L 27	# 78	
Pérez-Aran	da, Rul	bén	KDPC)F			
Comment T	уре	т	Comment Status	Α			Mux
the PCS	S transi	mit ordering		is mixing p		s (shall statements) fo path with PHD data	or
SuggestedF	Remedy	/					
Per con	nment.						
Response		F	Response Status	С			
ACCEP	T IN P	RINCIPLE.	See #66. Add new	/ subclaus	e for PCS tra	ansmit ordering and	

ACCEPT IN PRINCIPLE. See #66. Add new subclause for PCS transmit ordering and introduce the concept of start of Transmit Block, which information composes the RS message symbols and how it is ordered.

CI 300	SC 300.2.3.5	P 87	L 45	# 79
Pérez-Aranc	la, Rubén	KDPOF		
Comment Ty	vpe T	Comment Status A		Mux

Hierarchically, which information composes the RS message symbols and how it is ordered should in a different sub-clause, the one of PCS transmit ordering. Also in line 49 The RS-FEC encoder clause should only specify how the encoder works, w/o taking care about the meaning of the different bits that compose the message to be encoded.

SuggestedRemedy

Per comment.

ponse Response Status C

ACCEPT IN PRINCIPLE.

See #66. Add new subclause for PCS transmit ordering and introduce the concept of start of Transmit Block, which information composes the RS message symbols and how it is ordered.

C/ 300 SC 300.2.3.5 Page 49 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

C/ 300	SC 300.2.3.5	P 88	L 24	# 80	
Pérez-Ara	inda, Rubén	KDPOF			
Comment	Туре Т	Comment Status A			Mux
should The R	d in a different sul S-FEC encoder o	formation composes the RS b-clause, the one of PCS trai clause should only specify ho ne different bits that compose	nsmit ordering. w the encoder w	orks, w/o taking	
Suggested	lRemedy				
Per co	omment.				
Response		Response Status C			
		of start of Transmit Block, wh how it is ordered.	L 1	# 81	,
			LI	# 01	
	inda, Rubén	KDPOF			
Comment Multip	51	Comment Status A			EZ
to gen	ce with: "The initia erate"	al value of r[0] is xor-ed with	the first bit from t	the RS-FEC enc	oder
Response		Response Status C			
ACCE					
	SC 300.2.3.6	P 90	L 2	# 336	
ACCE		P 90 Corning	L 2	# 336	
ACCE C/ 300 Abbott, Jo Comment	hn		L 2	# 336	PAM
C/ 300 Abbott, Jo Comment chang Suggested	hn <i>Type E</i> e PAM2 to NRZ	Corning	L 2	# <u>336</u>	PAM

C/ 300	SC 300.2.3.6	P 9	0	L 2	# 82
Pérez-Ara	nda, Rubén	KDP	ЭF		
Comment	Туре Т	Comment Status	R		
along	a transmit block.		ling an	biguity in the spec	e LFSRs sequences ification and providing fication.
Suggested	Remedy				
Add M	ATLAB code and	I corresponding text	per ba	seline.	
Response		Response Status	С		
		802.3 and add infor	mative	annexes with exan	nples of input and
C/ 300	SC 300.2.3.7	P 9	0	L	# 83
Pérez-Ara	nda, Rubén	KDP	OF		
Comment No ne	<i>Type</i> T eded for specifica	Comment Status ation.	Α		Modulatio
Suggested Remo	<i>Remedy</i> ve clause.				
Response ACCE	PT.	Response Status	С		
C/ 300	SC 300.2.3.7	P 9	0	L 18	# 337
Abbott, Jo	hn	Corni	ng		
Comment chang	<i>Type</i> E e PAM2 to NRZ	Comment Status	Α		PAI
<i>Suggested</i> chang	<i>Remedy</i> e PAM2 to NRZ				
Response		Response Status	С		

C/ 300 SC 300.2.3.7

IEEE 802.cz Multi-Gig Aut

IEEE P802.3cz D1.0 Multi-Gig Automotive Optical Ethernet PHY 1st Task Force review comments

D 1.0 Comment Report

C/ 300	SC 300.2.3.7	P 90)	L 19	# 338	
Abbott, Jol	hn	Cornii	ng			
Comment change	<i>Type</i> E e PAM2 to NRZ	Comment Status	Α			PAM
Suggested change	<i>Remedy</i> e PAM2 to NRZ					
Response ACCEI	PT.	Response Status	С			
C/ 300	SC 300.2.3.7	P 90)	L 30	# 339	
Abbott, Jol	hn	Cornii	ng			
Comment Comment	<i>Type</i> E e PAM2 to NRZ	Comment Status	Α			PAM
Suggested change	Remedy e PAM2 to NRZ					
Response ACCEI	PT.	Response Status	С			
C/ 300	SC 300.2.4	P 90)	L 28	# 86	
Pérez-Arar	nda, Rubén	KDPC)F			
Comment Incomp		Comment Status n. No PHD decoding.			R	eceiver
Suggested	•	odina (maiority votin		16 detection E	n WThe PHD	

Add text about TRC decoding (majority voting), CRC16 detection. E.g. decoding comprises TRC decoding by majority voting for error correction and CRC16 checking for each received PHD. Only when the CRC16 computation indicates that the received PHD is correct shall the contents of the different PHD fields be available to the PMA state diagrams and to the other PCS receive functions that use this information."

Response

Response Status C

ACCEPT.

C/ 300	SC 300.2.4	P 90	L 28	# 85
Pérez-Ara	anda, Rubén	KDPOF		
Comment	Туре Т	Comment Status A		
What	is code-group? W	/hat is parameter rx_symb?		
Suggeste	dRemedy			

Suggr

Replace "The PCS Receive function accepts received code-groups provided by the PMA Receive function via the parameter rx symb. The PCS receiver uses knowledge of the encoding rules and PMA training alignment to correctly align the Transmit Blocks. The received PAM2 symbols are demapped and descrambling is performed." SERVITE SET THE PCS receive function accepts detected bits provided by the PMA receive function. The PCS receive function knows to which part of the received Transmit Block the symbols belong, based on the symbol time alignment information provided by the PMA receive function. The PCS receive function shall carry out the binary descrambling, RS-FEC decoding, PHD decoding, and the 64B/65B decoding.

Response	Response Status	С
ACCEPT.		

C/ 300	SC 300.2.4	P 9	0	L 42	# 87
Pérez-Ara	inda, Rubén	KDPO	DF		
<i>Comment</i> PCS r	<i>Type</i> T receive process m	Comment Status	Α		EZ
Suggested Repla	<i>Remedy</i> ce monitors with	decodes.			
Response ACCE		Response Status	С		
C/ 300	SC 300.2.4	P 9	1	L 7	# 93
Pérez-Ara	inda, Rubén	KDP	DF		
Comment TRC c	<i>Type</i> T lecoding is misse	Comment Status	Α		Receiver
S <i>uggested</i> Add si	<i>lRemedy</i> ubclause.				
	PT IN PRINCIPL	<i>Response Status</i> E. fying the TRC decodi			

C/ 300 SC 300.2.4 Page 51 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

C/ 300	SC 300.2.4	P 91	L7	# 92	C/ 300 SC 300.2.4.
Pérez-Ara	nda, Rubén	KDPOF			Abbott, John
		<i>Comment Status</i> A where RS-FEC decoded me missed.	essage is specifi	<i>Receiver</i> ied to be split into 65-	Comment Type E change PAM2 to NR2
Suggested Add si	<i>IRemedy</i> ubclause.				SuggestedRemedy change PAM2 to NR2
Response		Response Status C			Response ACCEPT.
Add a	and PHD. This s	E. fying how the RS-FEC decoo subclause should be the rece			C/ 300 SC 300.2.4 Pérez-Aranda, Rubén
CI 300	SC 300.2.4	P 91	L7	# 91	Comment Type T PMA receive function
Pérez-Ara	nda, Rubén	KDPOF			SuggestedRemedy
Comment		Comment Status A		FEC decoder error	Remove this clause.
RS-FE	EC decoder sub-c	clause is missed.			Response
Suggested					
Add su signali	ing. E.g. 🔐 The	ring the points needed for int descrambled bits are RS-Fl	EC decoded, wit	th error correction and	ACCEPT.
Add su signali error d that co as corr	ub-clause specify ing.IPE.g. IP "The letection. If during build not be correc	e descrambled bits are RS-Fl g RS-FEC decoding it is dete cted, the resulting bits belong am is then binary descramble	EC decoded, will ected that a code ging to that code	th error correction and eword contains errors	C/ 300 SC 300.2.4 Abbott, John Comment Type E
Add su signali error d that co as corr <i>Response</i>	ub-clause specify ing E.g. "The letection. If during ould not be correc rupt. The bit strea	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C	EC decoded, will ected that a code ging to that code	th error correction and eword contains errors	C/ 300 SC 300.2.4 Abbott, John Comment Type E
Add su signali error d that co as corr <i>Response</i> ACCE "The d during correct	ub-clause specify ing E.g. The letection. If during build not be correct rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy
Add su signali error d that co as corr <i>Response</i> ACCE "The d during correct	ub-clause specify ing E.g. The letection. If during build not be correct rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with en- g it is detected that a codew bits belonging to that codew	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be	C/ 300 SC 300.2.4. Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT.
Add su signali error d that cc as corr Response ACCE "The d during correc markin C/ 300	ub-clause specify ing	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end it is detected that a codew bits belonging to that codew 5-bit blocks with the flag /E/."	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be rked as corrupt by	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4
Add su signali error d that cc as corr Response ACCE "The d during correc markin C/ 300	ub-clause specify ing E.g. "The letection. If during buld not be correc rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting ing the affected 65 SC 300.2.4.1 nda, Rubén	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end bits belonging to that codew 5-bit blocks with the flag /E/."	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be rked as corrupt by	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4 Abbott, John
Add su signali error d that cc as corn Response ACCE "The d during correc markin C/ 300 Pérez-Arai Comment Transr Synch	ub-clause specify ing E.g. "The letection. If during buld not be correc rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting ing the affected 65 SC 300.2.4.1 nda, Rubén Type T mit block synchro ronization and tin	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end bits belonging to that codew bits belonging to that codew bits belongs to that codew bits belongs the flag /E/." <i>P</i> 90 KDPOF <i>Comment Status</i> A onization is not intended to be ning recovery together with E	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma <i>L</i> 46 e implement by EQ needs to be	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be irked as corrupt by # 88 Transmit Block synch PCS (it can't). implemented at PMA	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2
Add su signali error d that cc as corn Response ACCE "The d during correc markin C/ 300 Pérez-Arai Comment Transr Synch	ub-clause specify ing E.g. "The letection. If during ould not be correct rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting ng the affected 65 SC 300.2.4.1 nda, Rubén Type T mit block synchro ronization and tin e.g. if no synchro	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end bits belonging to that codew bits belonging to that codew bits belonging to that codew bits belongs to that codew bits belong to tha	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma <i>L</i> 46 e implement by EQ needs to be	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be irked as corrupt by # 88 Transmit Block synch PCS (it can't). implemented at PMA	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy
Add su signali error d that cc as corr <i>Response</i> "The d during correc markin <i>Cl</i> 300 Pérez-Ara <i>Comment</i> Transr Synch level (e <i>Suggested</i>	ub-clause specify ing E.g. "The letection. If during ould not be correct rupt. The bit streat PT IN PRINCIPL lescrambled bits RS-FEC decodir ted, the resulting ng the affected 65 SC 300.2.4.1 nda, Rubén Type T mit block synchro ronization and tin e.g. if no synchro	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end bits belonging to that codew bits belonging to that codew bits belongs to that codew bits belongs the flag /E/." <i>P</i> 90 KDPOF <i>Comment Status</i> A onization is not intended to be ning recovery together with E	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma <i>L</i> 46 e implement by EQ needs to be	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be irked as corrupt by # 88 Transmit Block synch PCS (it can't). implemented at PMA	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy
Add su signali error d that cc as corr <i>Response</i> "The d during correc markin <i>Cl</i> 300 Pérez-Ara <i>Comment</i> Transr Synch level (e <i>Suggested</i>	ub-clause specify ing E.g. "The letection. If during buld not be correct rupt. The bit stread PT IN PRINCIPL descrambled bits RS-FEC decodir ted, the resulting ing the affected 65 SC 300.2.4.1 nda, Rubén Type T mit block synchro ronization and tim e.g. if no synchro <i>IRemedy</i> ve this clause.	e descrambled bits are RS-FI g RS-FEC decoding it is detected, the resulting bits belong am is then binary descramble <i>Response Status</i> C E. are RS-FEC decoded, with end bits belonging to that codew bits belonging to that codew bits belongs to that codew bits belongs the flag /E/." <i>P</i> 90 KDPOF <i>Comment Status</i> A onization is not intended to be ning recovery together with E	EC decoded, will ected that a code ging to that code ed." error correction a vord contains en vord shall be ma <i>L</i> 46 e implement by EQ needs to be	th error correction and eword contains errors eword shall be marked and error detection. If rors that could not be irked as corrupt by # 88 Transmit Block synch PCS (it can't). implemented at PMA	C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2 Response ACCEPT. C/ 300 SC 300.2.4 Abbott, John Comment Type E change PAM2 to NR2 SuggestedRemedy change PAM2 to NR2

300 SC 300.2.4.1	P 90	L 48	# 340
bbott, John	Cornir	ng	
omment Type E change PAM2 to NRZ (t	<i>Comment Status</i> wice)	A	PAM
uggestedRemedy change PAM2 to NRZ			
esponse ACCEPT.	Response Status	с	
300 SC 300.2.4.2	P 90) L 51	# 89
érez-Aranda, Rubén	KDPO	F	
omment Type T	Comment Status	Α	Modulation
PMA receive function pa	asses detected bits to	o PCS. No demappir	ng needed.
uggestedRemedy Remove this clause.			
esponse ACCEPT.	Response Status	С	
300 SC 300.2.4.2	P 90	L 51	# 341
bbott, John	Cornir	ng	
omment Type E change PAM2 to NRZ	Comment Status	Α	PAM
uggestedRemedy change PAM2 to NRZ			
esponse ACCEPT.	Response Status	с	
300 SC 300.2.4.2	P 90	L 53	# 342
bbott, John	Cornir	ng	
omment Type E change PAM2 to NRZ	Comment Status	A	PAM
uggestedRemedy change PAM2 to NRZ			
esponse ACCEPT.	Response Status	c	

D 1.0 Comment Report

C/ 300	SC 300.2.4.2	P 90	L 54	# 343
Abbott, Jo	hn	Corning		
Comment chang	<i>Type</i> E e PAM2 to NRZ	Comment Status A		PAM
Suggested chang	<i>Remedy</i> e PAM2 to NRZ			
Response ACCE		Response Status C		
C/ 300	SC 300.2.4.3	P 91	L 5	# 90
Pérez-Ara	inda, Rubén	KDPOF		
Comment	Туре Т	Comment Status A		

PCS descrambler is connected to RS-FEC decoder.

SuggestedRemedy

Change: The PCS descrambles the data stream and returns the proper sequence of bits to the decoding process for generation of RXD<31:0> to the XGMII or 25GMII. To To The PCS descrambles the data stream and returns the proper sequence of bits to the RS-FEC decoder.

Response

Response Status C

ACCEPT IN PRINCIPLE.

RS-FEC decoder is part of the PCS.

Replace "The PCS descrambles the data stream and returns the proper sequence of bits to the decoding process for generation of RXD<31:0> to the XGMII or 25GMII" by "The resulting sequence of bits is used as input to the RS-FEC decoder"

C/ 300 SC 300.2.4.4 P91 L18 # 94 **KDPOF** Pérez-Aranda, Rubén Comment Type T Comment Status A FFC decoder error The PCS Receive function shall check that the RS-FEC function defined in 300.2.3.5 decoded correctly the received CW. If the check fails, the RS-FEC CW is invalid. This text should in a clause devoted to RS-FEC decoding. SuggestedRemedy Move text with changes, e.g. error detection is not implemented in the receiver by RS-FEC re-encoding (extra latency), but embedded in the RS decoder itself. Not needed such kind of details. Only that RS-FEC shall do both error correction and error detection. Response Response Status C ACCEPT IN PRINCIPLE. A new subclause for RS-FEC decoder will be added. The reference will be changed to this new subclause. "The descrambled bits are RS-FEC decoded, with error correction and error detection. If during RS-FEC decoding it is detected that a codeword contains errors that could not be corrected, the resulting bits belonging to that codeword shall be marked as corrupt by marking the affected 65-bit blocks with the flag /E/." C/ 300 SC 300.3.1 P91 L 31 # 96 **KDPOF** Pérez-Aranda, Rubén Comment Type T Comment Status A Modulation Specify nothing. SuggestedRemedy The PMA transmit function maps the Transmit Block bits into {-1, +1} symbols. Bits with value 0 shall be mapped to {-1} and bits with value 1 shall be mapped to {+1}. Symbols shall be transmitted to PMD with a transmit symbol period that shall be 1000 / (53.125 × S) ps nominal, which depends on the MultiGBASE-AU PHY. See Table 300-1 for the definition of S for each MultiGBASE-AU PHY.

Response

Response Status C

ACCEPT IN PRINCIPLE. "The PMA transmit function maps the Transmit Block bits into {-1, +1} symbols. Bits with value 0 shall be mapped to {-1} and bits with value 1 shall be mapped to {+1}. Symbols shall be transmitted to PMD with a transmit symbol period that shall be 1000 / (53.125 × S) ps nominal, which depends on the BASE-AU PHY. See Table 300–1 for the definition of S for each BASE-AU PHY."

C/ 300 SC 300.3.1 Page 53 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

Cl 300	SC 300.3.1	P 91	L 33	# 344
Abbott, Jo	hn	Corning		
<i>Comment</i> chang	<i>Type</i> E e PAM2 to NRZ	Comment Status A		PAM
Suggested chang	<i>Remedy</i> e PAM2 to NRZ			
Response ACCE		Response Status C		
C/ 300	SC 300.3.2	P 91	L 45	# 97
Pérez-Ara	inda, Rubén	KDPOF		
Comment To inc		Comment Status A ock synchronization.		Transmit Block synch

TO Include transmit block synchic

SuggestedRemedy

The PMA receive function comprises Transmit Block synchronization, clock recovery for sampling received symbols and adaptive channel equalization.

The PMA performs clock recovery on the received signal. The clock recovery includes coarse timing recovery for synchronization with the start of the received Transmit Block and clock frequency deviation estimation, and fine timing recovery to provide a stable clock to sample the received signal from the PMD with a suitable phase for reliable reception (see 300.3.5.1). The PMA receiver should implement channel equalization. The channel equalization technique is up to the implementer.

Response Response Status C

ACCEPT IN PRINCIPLE.

Remove last unnecessary sentence from the suggested remedy:

"The PMA receive function comprises Transmit Block synchronization, clock recovery for sampling received symbols and adaptive channel equalization.

The PMA performs clock recovery on the received signal. The clock recovery includes coarse timing recovery for synchronization with the start of the received Transmit Block and clock frequency deviation estimation, and fine timing recovery to provide a stable clock to sample the received signal from the PMD with a suitable phase for reliable reception (see 166.3.5.1).

The PMA receiver may implement channel equalization."

Cl 300	SC 300.3.3.1	P 9	2	L 6	# 98
Pérez-Ara	nda, Rubén	KDP	ЭF		
Comment	51	Comment Status	Α		Modulation
PAM2	term not needed	for specification.			
Suggested	Remedy				
1000 /	(53.125 × S) ps, finition of S for ea) takes its value fror and depends on the ch MultiGBASE-AU	MultiG	BASE-AU PHY. Se	e Table 300–1 for
Response ACCE		Response Status	С		
C/ 300	SC 300.3.3.1	P 9	2	L 6	# 345
Abbott, Jo	hn	Corni	ing		
Comment chang	<i>Type</i> E e PAM2 to NRZ	Comment Status	Α		PAM
Suggested chang	<i>IRemedy</i> e PAM2 to NRZ				
Response ACCE		Response Status	С		

C/ 300 SC 300.3.3.1 Page 54 of 62 15/05/2021 10:13:21

D 1.0 Comment Report

C/ 300 SC 300.3.3.1	P 92	L 8	# 99	C/ 300	SC 300.3.4.1	P 93	L 31	# 101
Pérez-Aranda, Rubén	KDPOF			Pérez-Arand	a, Rubén	KDPOF		
Comment Type T	Comment Status A		Receiver	Comment Ty	pe T	Comment Status A		tx_xmii_idle
Subclauses for signals	received from the PMD is mis	ssed.		FALSE:	The 64B/65B c	lecoder does not decode rece	eived PDBs fron	n the link partner
SuggestedRemedy				SuggestedRe	emedy			
Add subclause. Similar	wording and equations of 11	5.3.3.2 are valid	here.			lecoder does not decode rece	eived PDBs fron	n the link partner and
Response	Response Status C				t is signaled in	XGMII or 25GMII.		
ACCEPT IN PRINCIPLE				Response		Response Status C		
"Signals received from t that have been	ng the signals received from the PMD can be expressed a	is pulse-amplitu	-			E. Replace by:" FALSE: The rom the link partner and Loca		
filtered by a non-linear o	hannel and corrupted by noi	se as follows in	Equation (166–X):	C/ 300	SC 300.3.4.1	P 93	L 45	# 102
y(n)=(Add non-linearity	<i>w</i> ith Volterra)			Pérez-Arand	a, Rubén	KDPOF		
where the received sign clock, at the	al y(n) is sampled by the PM	A receive functi	on with the recovered	Comment Ty (see 300		Comment Status A ralid reference.		EZ
	n a frequency equal to the tra	ansmit symbol c	lock.	SuggestedRe	,			
x(n) is the transmitted s	ignal from the PMA transmit	function to the f	MD transmit function.	00		to 64B/65B transmit state di	agram.	
N(n) is the	0		,	Response		Response Status C	-	
	D receiver due optical signal the non-linear response of the			ACCEPT				
The received signal y(n)) of Equation (166–X) include	es the effect of t	ne end-to-end	C/ 300	SC 300.3.4.1	P 93	L 50	# 103
communication channel	composed of all the elemen	ts from the PM/	transmitter to the	Pérez-Arand	a, Rubén	KDPOF		
PMA receiver, including optical signal carried ou	the conversion to to the PMD transmitter, the	e fiber optic cha	nnel, and the	Comment Ty	pe T	Comment Status A		tx_xmii_idle
	signal carried out by the PM					ncoded in transmitted PDBs.		
C/ 300 SC 300.3.4.1	P 93	L 28	# 100			:/46.3.4, 65B blocks encoding nii enable = FALSE. In case		
Pérez-Aranda, Rubén	KDPOF			training, t	the remote RS	may receive transitions LF-	IDLE - RF - IDLI	E when link is
Comment Type T	Comment Status A		EZ			 IDLE, because the encoded ered sets generated by the 65 		
(222,200,2,2,4,10) po)//	alid reference.			SuggestedRe				
(See 500.2.5.4.10) 10 va					-	ult ordered sets are encoded	in "PChange	e shift register reset
,				value of l	binary scrambl	ler (page 89, line 52) to anoth	er one optimum	for the new training
SuggestedRemedy	to 64B/65B receive state dia	gram.			/1 · · · · ·		····	000 04 40E
SuggestedRemedy	to 64B/65B receive state dia Response Status C	igram.		sequence 5, replace	e. (I will do a c e IBLOCK T w	ontribution for solving this con vith LBLOCK T in TX INIT st	mment) Figure	300-21, page 105, line 0.2.3 for consistency.
SuggestedRemedy Replace by a reference		igram.		sequence 5, replace <i>Response</i>	e. (I will do a c e IBLOCK_T w	ontribution for solving this col vith LBLOCK_T in TX_INIT st Response Status C	mment) ate. Revise 30	300-21, page 105, line 0.2.3 for consistency.

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

C/ 300 SC 300.3.4.1 Page 55 of 62 15/05/2021 10:13:22

D 1.0 Comment Report

C/ 300	SC 300.3.4.1	P 93	L 51	# 104
Pérez-Aranda	a, Rubén	KDPOF		
Comment Typ	e T	Comment Status A		tx_xmii_idle

tx_xmii_idle variable and the use in PHY TX control state diagram is not compatible with 64B/65B transmit state diagram of Figure 300-21 and C/46.3.4. tx_xmii_enable variable controls when the 64B/65B encoder starts to encode the XGMII transfers (transition from TX_INIT). When tx_xmii_enable = TRUE, the encoding starts (with Remote Fault according to C/46). 64B/65B transmit state diagram remains always in TX_INIT, and idle detection cannot be produced, and tx xmii_enable is always FALSE, so transmitter is locked.

SuggestedRemedy

Remove tx_xmii_idle state variable. Also from PHY TX control state diagram, figure and description.

Response	2	Response Status C		
ACCE	EPT.			
C/ 300	SC 300.3.4.2	P 94	L 40	# 105
Pérez-Ara	anda. Rubén	KDPOF		

Comment Type T Comment Status A

so that the remote PHY can perform clock recovery and train its equalizers (tx_enable <= TRUE).

SuggestedRemedy

"so that the remote PHY can perform Transmit Block synchronization, clock recovery and train its equalizers (tx enable <= TRUE)"

Response	Response Status C	
ACCEPT.		

CI 300	SC 300.3.4.2	P 94	L 44	# 106
Pérez-Arar	nda, Rubén	KDPOF		
Comment T	Туре Т	Comment Status A		tx_xmii_idle

Instead of this, the 64B/65B PCS encoder generates idle PDBs (see Figure 300-21)

SuggestedRemedy

Instead of this, the 64B/65B PCS encoder encodes predefined data to be used for the remote receiver alignment (see Figure 300–21).

Response Response Status C

ACCEPT.

C/ 300	SC 30	0.3.4.2	P 94	L 46	# 107
Pérez-Aranda	a, Rub	én	KDPOF		
Comment Typ	be	т	Comment Status A		tx_xmii_idle
Remove "	'check	s. and if	necessarv. waits until the X0	GMII or 25GMII	transmit data stream

SuggestedRemedy

Per comment.

Response ACCE		Response Status	С		
CI 300	SC 300.3.4.3	P 9	5	L 52	# 108
Pérez-Ara	nda, Rubén	KDPC)F		
Comment	Туре Т	Comment Status	Α		Transmit Block synch

"begins link establishment by recovering clock from the received signal. The clock recovery comprises two stages. The first stage is coarse timing recovery in PMARX_TIMING_COARSE, where symbol synchronization shall be performed. After symbol synchronization is achieved (sotxb_synch = OK),"

SuggestedRemedy

ΕZ

"begins link establishment by synchronizing the Transmit Block and recovering clock from the received signal. It is accomplished in two steps. The first step is coarse timing recovery in PMARX_TIMING_COARSE, where Transmit Block synchronization shall be performed. After synchronization with the start of the received Transmit Block is achieved (sotxb_synch = OK), ... "

Response Response Status C

ACCEPT.

C/ 300 SC 300.3.4.3 Page 56 of 62 15/05/2021 10:13:22

D 1.0 Comment Report

CI 300	SC 300.3.4.3	P 96	L 5	# 109		C/ 300	SC 300.3.4.3	P 96	L 19	# 111
Pérez-Ara	nda, Rubén	KDPOF				Pérez-Arar	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status A			ΕZ	Comment	Туре Т	Comment Status A		Terminology
		ns for timing recovery can be			9	PCS d	ecoder does not	decode PDBs received from	link partner	
		nplementor has the possibili overy and equalizer adaptati				Suggested	Remedy			
link_st recove	atus = FAIL). It is ery and equalizer	decision up to the implement tracking needs to be blind, b	ntor. When link_ ecause transpor	status = OK, the clo ted information will	be	"PCS o Fault"	decoder does not	decode 65B blocks received	l from link partn	er and generate Local
	,	hich is not a priori known. H ers once link status = OK.	owever the imple	ementor may decide	ed	Response		Response Status C		
Suggested	• •	ers once min_status – OK.						E. "PCS decoder does not de ocal Fault ordered sets"	ecode 65-bit blo	cks received from link
		tation decision the algorithm	is to use.			C/ 300	SC 300.3.4.3	P 96	L 23	# 313
Response		Response Status C				Hayashi, T	akehiro	HAT Lab., Inc	-	
ACCE	PT.					Comment	Туре Е	Comment Status A		
CI 300	SC 300.3.4.3	P 96	L 5	# 312		"transit	t" may not a prop	er term.		
Hayashi, 1	Fakehiro	HAT Lab., Inc	C.			Suggested	Remedy			
Comment	Туре Е	Comment Status A				Use "tr	ansition"			
No de	finition for "Blind	racking algorithms""				Response		Response Status C		
Suggested	lRemedy					ACCEI	PT IN PRINCIPL	E. Substitute "transit" by "trai	nsitions"	
add de	efinition					<u> </u>	SC 200 2 4 5	D.07	1.05	# 440
Response		Response Status C				C/ 300	SC 300.3.4.5	P 97	L 35	# 113
ACCE	PT IN PRINCIPL	E. Remove sentence per co	mment #109				nda, Rubén	KDPOF		
CI 300	SC 300.3.4.3	P 96	L13	# 110		Comment "on ent	<i>Type</i> E try" has no mean	Comment Status A		EZ
Pérez-Ara	nda, Rubén	KDPOF				Suggested	Remedy			
Comment	Туре Е	Comment Status A			ΕZ	Remov	/e it.			
wheth	er this reception i	s reliable				Response		Response Status C		
Suggested	lRemedy					ACCEI	PT.	,		
wheth	er the 65B blocks	reception is reliable.								
		Deserves Oferture O								
Response		Response Status C								

C/ 300 SC 300.3.4.5

# 347	L 2	P 100	SC 300.3.5.2	# 112	L 3	P 98	SC 300.3.4.5	C/ 300
		Corning	ohn			KDPOF	anda, Rubén	Pérez-Arai
PA		Comment Status A	<i>Type</i> E ge PAM2 to NRZ <i>dRemedy</i> ge PAM2 to NRZ	EZ vrhdr of Figure 300- other state diagram or	elated with en_rc assigned by any	Comment Status A of headers" seems to be re is not defined and it is not tent with baseline.	sable the reception en_rcvrhdr variable ter.	17. <u>sep</u> e registe
		Response Status C	9 · · · ···					Suggested
			, EPT.			e in the state diagram.	ove text and variabl	Remov
						Response Status C		Response
# 115	L 2	P 100	SC 300.3.5.2				EPT.	ACCEI
		KDPOF	anda, Rubén	# 114	L 53	P 99	SC 300.3.5.2	C/ 300
Modulatic		Comment Status A	<i>Type</i> T 2 decoder"	Modulation		KDPOF Comment Status A	anda, Rubén	Pérez-Arai Comment 3
			dRemedy			ecision points"	e PAM2 decoder de	"at the
		etector"	ace with "symbols d				dRemedv	Suggested
		Response Status C	9			decision points"	e symbols detector	
	ector"	. Replace with "symbol det	EPT IN PRINCIPLE			Response Status C		Response
# 116	L 9	P 100	SC 300.3.5.2					ACCEI
		KDPOF	anda, Rubén	# 346	L 54	P 99	SC 300.3.5.2	C/ 300
Modulatio		Comment Status A	Туре Т			Corning	ohn	Abbott, Jol
		f RS-FEC coded PAM2"	ired for reception of	PAM		Comment Status A	t Type E	Comment
			dRemedy				ge PAM2 to NRZ	change
	ewords"	or reception of RS-FEC cod	ace with "required fo				edRemedy	Suggested
		Response Status C	9				ge PAM2 to NRZ	change
			EPT.			Response Status C	e	Response
# 348	L 9	P 100	SC 300.3.5.2				EPT.	ACCEI
		Corning	ohn					
PA		Comment Status A	<i>Type</i> E ge PAM2 to NRZ					
			dRemedy ge PAM2 to NRZ					
		Response Status C	e PT.					

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 300

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 300.3.5.2

 SORT ORDER: Clause, Subclause, page, line
 SC 300.3.5.2
 SC 300.3.5.2

5.2

Page 58 of 62 15/05/2021 10:13:22

D 1.0 Comment Report

CI 300	SC 300.3.5.3	<i>P</i> 100	L15	# 117	CI 300 SC 300.3	.5.3 <i>P</i> 100	L 31	# 314
Pérez-Arar	nda, Rubén	KDPOF			Hayashi, Takehiro	HAT Lab., Ir	IC.	
Comment 7	Туре Т	Comment Status A		Miss text	Comment Type T	Comment Status A		
Definiti	on of PHY qualit	y monitor state variables is r	missed		No explanation of s	tep "PMAMON_SYNCH"		
Suggestedl	Remedy				SuggestedRemedy			
Add su	bclause, similar	to C/ 115.3.7.3.			add explantion of "F	PMAMON_SYNCH"		
Response		Response Status C			Response	Response Status C		
	PT IN PRINCIPL	E. PHY quality monitor state v	ariables.			CIPLE. Substitute "After at least ne locally transmitted Transmit E		
"166.3.	5.3 PHY quality	monitor state variables			C/ 300 SC 300.3	.6 <i>P</i> 100	L 41	# 119
	0	ll the variables used in the P	HY quality monit	tor state diagram that	Pérez-Aranda, Rubén	KDPOF		
	ot been Isly introduced:				Comment Type E	Comment Status A		Re-structure tex
	,	L			These state diagram	ma halang ta DCS auhlavar		
	nk_margin_event				These state diagram	ns belong to PCS sublayer.		
Signal	sent by the PHY	receiver to indicate a new e	stimation of dete	ector link margin is	SuggestedRemedy	his belong to PCS sublayer.		
Signal : availab	sent by the PHY le.			Ū	-			
Signal : availab This ev link_ma	sent by the PHY lle. /ent persists only argin	receiver to indicate a new e r long enough to cause one s	state diagram tra	ansition.	SuggestedRemedy	ause.		
Signal : availab This ev link_ma Variabl	sent by the PHY le. vent persists only argin le set by the PHY	receiver to indicate a new e	state diagram tra ue of the last link	ansition. < margin estimation.	SuggestedRemedy Move to PCS subcl			
Signal : availab This ev link_ma Variabl	sent by the PHY ele. vent persists only argin le set by the PHY : Any value deter	receiver to indicate a new e r long enough to cause one a r receiver containing the value	state diagram tra ue of the last link	ansition. < margin estimation.	SuggestedRemedy Move to PCS subcl Response ACCEPT.	ause. Response Status C		# 04
Signal : availab This ev link_ma Variabl Values 166.3.5	sent by the PHY ele. vent persists only argin le set by the PHY : Any value deter	receiver to indicate a new e r long enough to cause one a r receiver containing the value	state diagram tra ue of the last link	ansition. < margin estimation.	SuggestedRemedy Move to PCS subcl Response ACCEPT. Cl 300 SC 300.3	ause. Response Status C .6 P100	L 41	# 84
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300	sent by the PHY ole. vent persists only argin le set by the PHY : Any value deter 5.2"	receiver to indicate a new e long enough to cause one s receiver containing the value rmined per Equation (166–5	state diagram tra ue of the last link) with E[n^2_d] a	ansition. k margin estimation. and T_LM as defined in	SuggestedRemedy Move to PCS subcl Response ACCEPT. C/ 300 SC 300.3 Pérez-Aranda, Rubén	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF	L 41	
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Arar	sent by the PHY ele. vent persists only argin e set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén	receiver to indicate a new e r long enough to cause one s r receiver containing the value rmined per Equation (166–5 P 100	state diagram tra ue of the last link) with E[n^2_d] a	ansition. k margin estimation. and T_LM as defined in	SuggestedRemedy Move to PCS subcl Response ACCEPT. C/ 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF <i>Comment Status</i> A		# 84 Re-structure tex
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Arar Comment 1	sent by the PHY ole. vent persists only argin le set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén Type T	receiver to indicate a new e long enough to cause one s receiver containing the value rmined per Equation (166–5 <i>P</i> 100 KDPOF	state diagram tra ue of the last link) with E[n^2_d] a <i>L</i> 24	ansition. and T_LM as defined in # 118 Cross reference	SuggestedRemedy Move to PCS subcl Response ACCEPT. Cl 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T 65-bit block transm	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF		
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Arar <i>Comment 1</i> Referen	sent by the PHY le. vent persists only argin le set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén Type T nce to C/115 for	receiver to indicate a new e long enough to cause one s receiver containing the value rmined per Equation (166–5 P 100 KDPOF Comment Status A	state diagram tra ue of the last link) with E[n^2_d] a <i>L</i> 24 d in C/300, new o	ansition. ansition. and T_LM as defined in # 118 Cross reference or by reference to	SuggestedRemedy Move to PCS subcl Response ACCEPT. C/ 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T 65-bit block transm SuggestedRemedy	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF <i>Comment Status</i> A ission and reception belongs to	PCS, no PMA.	Re-structure te:
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Aran Comment 7 Referen C/115.	sent by the PHY de. vent persists only argin le set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén Type T nce to C/115 for Reduce to min t	receiver to indicate a new e long enough to cause one s receiver containing the value rmined per Equation (166–5 P 100 KDPOF Comment Status A fix-point. It should be define	state diagram tra ue of the last link) with E[n^2_d] a <i>L</i> 24 d in C/300, new o	ansition. ansition. and T_LM as defined in # 118 Cross reference or by reference to	SuggestedRemedy Move to PCS subcl Response ACCEPT. Cl 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T 65-bit block transm SuggestedRemedy Move transmission	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF <i>Comment Status</i> A ission and reception belongs to as a subclause to PCS transmi	PCS, no PMA.	Re-structure te:
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Aran Comment 7 Referen C/115. Suggested/	sent by the PHY de. vent persists only argin le set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén Type T nce to C/115 for Reduce to min t	receiver to indicate a new e r long enough to cause one s r receiver containing the value rmined per Equation (166–5 P 100 KDPOF Comment Status A fix-point. It should be define he references to C/115, with	state diagram tra ue of the last link) with E[n^2_d] a <i>L</i> 24 d in C/300, new o	ansition. ansition. and T_LM as defined in # 118 Cross reference or by reference to	SuggestedRemedy Move to PCS subcl Response ACCEPT. C/ 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T 65-bit block transm SuggestedRemedy Move transmission subclause to PCS r	ause. Response Status C .6 P 100 KDPOF Comment Status A ission and reception belongs to as a subclause to PCS transmi receiver function.	PCS, no PMA.	Re-structure te:
Signal : availab This ev link_ma Variabl Values 166.3.5 C/ 300 Pérez-Arar Comment 7 Referei C/115. Suggested/	sent by the PHY le. vent persists only argin le set by the PHY : Any value deter 5.2" SC 300.3.5.3 nda, Rubén Type T nce to C/115 for Reduce to min the Remedy	receiver to indicate a new e r long enough to cause one s r receiver containing the value rmined per Equation (166–5 P 100 KDPOF Comment Status A fix-point. It should be define he references to C/115, with	state diagram tra ue of the last link) with E[n^2_d] a <i>L</i> 24 d in C/300, new o	ansition. ansition. and T_LM as defined in # 118 Cross reference or by reference to	SuggestedRemedy Move to PCS subcl Response ACCEPT. Cl 300 SC 300.3 Pérez-Aranda, Rubén Comment Type T 65-bit block transm SuggestedRemedy Move transmission	ause. <i>Response Status</i> C .6 <i>P</i> 100 KDPOF <i>Comment Status</i> A ission and reception belongs to as a subclause to PCS transmi	PCS, no PMA.	Re-structure te:

C/ 300 SC 300.3.6

D 1.0 Comment Report

C/ 300	SC 300.3.6.1	P 10)2	L 11	# 120
Pérez-Ara	nda, Rubén	KDPC)F		
Comment	Туре Т	Comment Status	Α		
IBLOC	K_T/R. However	by any state diagram these last ones are e e.g. C/55, C/149,)	expecte		
Suggested	Remedy				
Remov	ve UBLOCK_R. 1	his PHY will not ger	nerate L	ink Interruption o	rdered sets to RS.
Response		Response Status	С		
ACCE	PT.				
C/ 300	SC 300.6.1	P 10)4	L 46	# 121
Pérez-Ara	nda, Rubén	KDPC)F		-
Comment	Tvpe T	Comment Status	Α		BASE
the PM Suggested	ID or complete Pl				d PMA, and BASE-Al
Response	•	Response Status	С		
Substi	by "the services	, I.	BASE-		ed to MultiGBASE-AL BASE-U
Cl 300	SC 300.6.1.1	P 10)7	L 3	# 122
Pérez-Ara	nda, Rubén	KDPC)F		
Comment analog	51	<i>Comment Status</i> e". In reality symbols		alue {-1} and {+1}.	
Suggested Correc	<i>Remedy</i> t per comment.				
Response		Response Status	с		
ACCE	PT.				

Cl 300	SC 300.7	Р	L	# 352
Swanson,	Steve	Corning Inc		
Comment	Туре Е	Comment Status R		
Should	d we flip the ord	er of 300.7 and 300.8?		
Suggested	Remedy			
Response		Response Status C		
	urrent order in D) I baseline proponent to change		· · · · ·
CL 300	SC 300 13	P100	/ 13	# 109

C/ 300	SC 300.13	P 1	09	L 13	# 198
Grow, Rob	pert	RMG	Cons	ulting, KDPOF	
Comment PICS :	<i>Type</i> E should start on a r	Comment Status new page.	Α		EZ
Suggested Insert	<i>IRemedy</i> page break before	e PICS.			
Response ACCE	PT.	Response Status	С		
C/ 300	SC Figure 30	0-4 P7	7	L11	# 197
Grow, Rob	pert	RMG	Cons	ulting, KDPOF	
Comment	Туре Е	Comment Status	Α		EZ

The labling on PDBs highlights a problem we created decades ago with keeping the name 8B/10B. IEEE style should have had us changing the name from the inventor 8B/10B to 8b/10b. (Capital B is byte an lower case b is bit.) We have consistently used a capital B in code names since, but hopefully do not use a captal B for bit anywhere else.

SuggestedRemedy

Change 65B to 65-bit (like is done for 20-bit).

Response Response Status C

ACCEPT.

C/ 300,1 SC 300,1	P 71	L15	# 39	C/ 300,1 SC 300,1	P71	L 37	# 40
Pérez-Aranda, Rubén	KDPOF			Pérez-Aranda, Rubén	KDPOF		
Comment Type E	Comment Status A		BASE-U	Comment Type T	Comment Status A		OAM
If BASE-U and BASE- the overview.	AU are defined, it would be c	onvenient to inclu	ide some description in	specification do refer	lity should be BASE-U OAM a ences C/115 to make easier m		
SuggestedRemedy				unnecessary. SuggestedRemedy			
Add description if BAS	E-U and/or BASE-AU are ad	ded to c/ 1.4.		Correct the text acco	rdinaly		
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT.	Response Status C		
C/ 300,1 SC 300,1	P 71	L15	# 38	. <u> </u>			
Pérez-Aranda, Rubén	KDPOF			C/ 300,12 SC 300,12	P 108	L 37	# 123
Comment Type E	Comment Status A		BASE-U	Pérez-Aranda, Rubén	KDPOF		
According to PHY nam for PMD and complete	ning conventions, U is used to PHY naming.	o designate PCS	and PMA, and A used	<i>Comment Type</i> E "that there be" —> m	Comment Status A eaning ?		EZ
SuggestedRemedy In the first part of the p	paragraph, where PCS and P	MA is referred, us	se BASE-U.	SuggestedRemedy Remove.			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 300,1 SC 300,1	P71	L 20	# 127	C/ 300,12 SC 300,12	P 109	L3	# 124
Hyakutake, Yasuhiro	Adamant Na	miki Precision Je	wel Co., Ltd.	Pérez-Aranda, Rubén	KDPOF		
Comment Type E	Comment Status R			Comment Type T	Comment Status A		EZ
	sentence conjunction word m same equivalency a 2.5GBA				ay is the same for all the data- s result of multiplying the numb		
SuggestedRemedy				SuggestedRemedy			
The conjunction word	"or" change to "and".			Correct table per con	nment.		
Response	Response Status C			Response	Response Status C		
REJECT. Accepting this comme	nt would change the meaning	g of the sentence be only one pick		ACCEPT.			

C/ 300,12 SC 300,12 Page 61 of 62 15/05/2021 10:13:22

Cl 300,3	SC 300,3	P 91	L 26	# 95
Pérez-Aranda, Rubén		KDPOF		

Comment Type E Comment Status A

"for control of the MultiGBASE-AU PHY and link (see 300.3.4) and for PHY link quality (see 300.3.5)" phrase is redundant and unclear.

SuggestedRemedy

E.g.: "for PHY and link management (see 300.3.4 and 300.3.5)"

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace "for control of the MultiGBASE-AU PHY and link (see 300.3.4) and for PHY link quality (see 300.3.5)." by "for PHY control and link monitoring (see 166.3.4) and link quality (see 166.3.5)."

CI 300,3 SC 300,3