D 1.0 Comment Report

C/ 00 SC	Р	L	# 353	C/ FM	SC FM	P1	L 30	# 134	
NoName				Grow, Rol	pert	RMG Consul	ting, KDPOF		
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status D			ΕZ
						iments on P802.3cy snd P802 difier of "Automotive Ethernet".		nould be using opti	cal
SuggestedRemedy				Suggested	Remedy				
Proposed Response	Deenenee Status			Chang	ge "Automotive	Optical" to "Optical Automotive	e" here,		
Proposed Response	Response Status O			Proposed	Response	Response Status W			
				PROF	OSED ACCEP	T.			
C/FM SC FM	P 1	L <b>2</b>	# 133	C/ FM	SC FM	P3	L6	# 135	
Grow, Robert	RMG Consul	ting, KDPOF				-	-	# 135	
Comment Type E	Comment Status D		EZ	Grow, Rol		RMG Consul	ling, KDPOF		
	) typo "IEE"; 2) different gramm is indicates we are likely to be			Comment Add to	<i>Type</i> <b>E</b> Keywords.	Comment Status D			EZ
20xx his does not ag	gree with front matter introduction	on (nor current ti	nelines}.	Suggested	Remedv				
SuggestedRemedy				Add A	utomotive Ethe	ernet to the list.			
	E Std 802.3TM-20xx as amend			Proposed	Response	Response Status W			
	). Request update of draft temp	lates ("of" instea	d or "to").		OSED ACCEP				
Proposed Response	Response Status W								
PROPOSED ACCER	PT.			C/ FM	SC FM	P4	L7	# 136	
C/ FM SC FM	P1	L12	# 132	Grow, Rol	pert	RMG Consul	ting, KDPOF		
Grow. Robert	RMG Consul	ting, KDPOF		Comment	Туре Е	Comment Status D			ΕZ
Comment Type E	Comment Status D		EZ			e the Roman and Arabic numb is no longer the style (see 202			
Title does not agree	with the PAR.			Suggested	Remedy				
SuggestedRemedy Replace with "Physic	cal Layer Specifications and Ma	anagement Para	meters for Multi-Gigabit			ote. Request update of 802.3 k current template on the web		till there (I don't ha	ve
Optical Automotivo Ethornot	t" horo: n 10   1: and n 19	17		Proposed	Response	Response Status W			
	t" here; p. 10, l. 4; and p. 18, l.	17.		PROF	OSED ACCEP	Т.			
Proposed Response	Response Status W								
PROPOSED ACCE	P1.								

C/ FM SC FM

#### 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

ΕZ

ΕZ

C/ FM	SC FM	P 8	L <b>4</b>	# 137		C/FM SC FM	P 11	L <b>40</b>	# 140	
Grow, Rol	bert	RMG Consul	ting, KDPOF			Grow, Robert	RMG Consul	ting, KDPOF		
Comment	Type E	Comment Status D			EZ	Comment Type E	Comment Status D			ΕZ
		ove on line 17 are perhaps mi				Sponsor ballot is now	v an obsolete term.			
		ss of the draft, and the list will /G meeting at which WG ballo		y the voter list		SuggestedRemedy				
Suggested			t is approved.			Change "Sponsor ba	llot" to "SA ballot".			
00	,	consiger replacing the TBD at	line 17 with an F	ditor's Note that the		Proposed Response	Response Status W			
		after initial WG ballot.				PROPOSED ACCEP				
,	Response	Response Status W				C/FM SC FM	P11	L 43	# 141	
PROF	POSED ACCEP	Τ.				Grow, Robert	RMG Consul	tina. KDPOF		
C/ FM	SC FM	P 8	L8	# 138		Comment Type E	Comment Status D	3,		ΕZ
Grow, Rol	bert	RMG Consul	tina. KDPOF			• •	include complete year on any	unapproved/unpu	blished standard.	
Comment	Type E	Comment Status D	0,		EZ	SuggestedRemedy				
Old W	/G officer list					,	)XX" here as well as page 12 a	and lines 1 and 7.		
Suggested	dRemedy					Proposed Response	Response Status W			
	•	nd ", Phase 2 from Jon's line.				PROPOSED ACCER	1			
Proposed	Response	Response Status W				C/FM SC FM	P11	L <b>45</b>	# 440	
PROF	POSED ACCEP	Т.							# 143	
C/ FM	SC FM	P9	L <b>5</b>	# 139		Grow, Robert	RMG Consul	ting, KDPOF		
Grow. Rol				# 139		Comment Type E	<i>Comment Status</i> <b>D</b> k draft has a self description.			ΕZ
- ,		RMG Consul Comment Status D	ung, KDPOF		EZ		r urait has a sell description.			
Comment	<i>Type</i> <b>E</b> e TBD here, line				EZ	SuggestedRemedy	inting in This case whereast in a			10
	,	20 anu mie 34.					iption is: This amendment inc I through Clause 163, Annex 1			18
Suggested	•	a completed by publication edi	tor during publics	tion proporation		through Annex 162D	. This amendment includes Ph	ysical Layer spec	ifications and	
		e completed by publication edi	tor during publica	ation preparation.		management paramon on 100 Gb/s signalin	eters for 100 Gb/s, 200 Gb/s, a	nd 400 Gb/s elec	trical interfaces bas	sed
,	Response	Response Status W				Proposed Response	Response Status W			
PROF	POSED ACCEP	1.				PROPOSED ACCEP	1			
						FINDE OSED AUGER	1.			

C/ FM SC FM

D 1.0 Comment Report

C/ FM	SC FM	P 11	L 45	# 142	
Grow, Robert		RMG Consul	lting, KDPOF		-
Comment T	ype E	Comment Status D		Ež	Ζ

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.

Proposed Response	Response Status	W

PROPOSED ACCEPT.

C/ FM	SC FM	P 12	L <b>3</b>	# 144
Grow, Rober	t	RMG Consulti	ng, KDPOF	
Comment Ty	pe E	Comment Status D		EZ

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.

Proposed Response Response Status W

### PROPOSED ACCEPT.

C/ FM	SC	FM	P 12	L <b>3</b>	# 145
Grow, Rob	pert		RMG Consulti	ng, KDPOF	
Comment	Туре	Е	Comment Status D		EZ
The ex			and what has so a solf dependention.		

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."

Proposed Response Response Status W

PROPOSED 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 Consul	ting, KDPOF		
Comment Ty	/pe T	Comment Status D			ΕZ

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.

Proposed Response	Response Status	w
PROPOSED ACCEPT.		

C/ FM	SC FM	P 13	L 26	# 147
Grow, Rob	pert	RMG Consul	ting, KDPOF	
Comment	Туре Е	Comment Status D		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

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..

Proposed Response	Response Status	w
PROPOSED ACCEPT.		

C/ FM	SC	FM	P 13	L 57	# 148	
Grow, Rob	ert		RMG Consult	ting, KDPOF		_
Comment 7	Гуре	Е	Comment Status D			ΕZ
Somet	hing m	essed	up the footer in this file of the bo	ook.		

SuggestedRemedy

Fix FrameMaker TOC file footer centering.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ <b>FM</b>	Page 3 of 60
SC FM	05/03/2021 22:38:47

D 1.0 Comment Report

C/↓ SC↓	Р	L	# 232	C/00 SC 0 P1 L0 # 131
Hayashi, Takehiro	HAT Lab., Inc.			Grow, Robert RMG Consulting, KDPOF
Comment Type E	Comment Status X		E	Comment Type         E         Comment Status         D         EZ           Incorrect TF name in header, both project number and TF name         EZ         EZ
SuggestedRemedy				SuggestedRemedy Change IEEE 802.cz Multi-Gig Automotive Optical Ethernet PHY Task Force to IEEE
Proposed Response Empty comment	Response Status W			P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force. Also correct on page 8 lines 13 and 14.
ci↓ sc↓	Р	L	# 229	Proposed Response Response Status W PROPOSED ACCEPT.
Hayashi, Takehiro	HAT Lab., Inc.			C/ 00 SC 0 P16 L21 # 315
Comment Type E	Comment Status X		E	Abbott, John Corning
				Comment Type E Comment Status D PAN
SuggestedRemedy Proposed Response Empty comment	Response Status W			change PAM2 to NRZ. There seems to an consistency in 802.3 standard between using the term NRZ or PAM2. At the beginning of clause 300, it makes sense to state we are using the terms interchangeably. Clauses 11,24,25,26,58,68,120, use NRZ. These are glass optical clauses and this is a glass optical standard. Clauses 55,,97,113,126 use PAM2 and these are COPPER. Clause 115 (POF) used PAM2 like the copper clauses. It might make sense for maintenance somewhere to explain they are the same. If they are
C/ <b>45</b> SC <b>0</b> Hayashi, Takehiro	<i>Р</i> <b>37</b> НАТ Lab., Inc.	L <b>5</b>	# 235	not the same, then this clause 300 would be a good place to explain why PAM2 is being used. There might be an excellent reason.
Comment Type E	Comment Status X	e used.	shall statemen	SuggestedRemedy change PAM2 to NRZ or explain they are the same
SuggestedRemedy indicates ® shall indic	•			Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response	Response Status W			C/ 00 SC 0 P21 L20 # 316
PROPOSED REJECT	T. This is a description, not a req	uirement		Abbott, John Corning
C/45 SC 0	P 37	L 12	# 237	Comment Type E Comment Status D PAM change PAM2 to NRZ
Hayashi, Takehiro Comment Type E	HAT Lab., Inc. Comment Status X e requirements, "shall" should be	aused	shall statemen	SuggestedRemedy change PAM2 to NRZ
SuggestedRemedy				Proposed Response Response Status W PROPOSED ACCEPT.
indicates ® shall indic	ale			

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

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C/ 00

SC 0

D 1.0 Comment Report

CI 00 SC 0	P <b>21</b>	L <b>25</b>	# 317	C/ 00 SC 0	P 22	L <b>4</b>	# 321
Abbott, John	Corning			Abbott, John	Corning		
Comment Type E change PAM2 to NRZ	Comment Status D		PAM	Comment Type E change PAM2 to NRZ	Comment Status D		PAI
SuggestedRemedy change PAM2 to NRZ				SuggestedRemedy change PAM2 to NRZ			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
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 D		PAM	Comment Type E change PAM2 to NRZ	Comment Status D		PAN
SuggestedRemedy change PAM2 to NRZ				SuggestedRemedy change PAM2 to NRZ			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/00 SC 0	P 21	L <b>47</b>	# 319	C/ 00 SC 0	P 27	L <b>6</b>	# 323
Abbott, John	Corning			Abbott, John	Corning		
Comment Type E change PAM2 to NRZ	Comment Status D		PAM	Comment Type E change PAM2 to NRZ	Comment Status D		PAI
SuggestedRemedy change PAM2 to NRZ				SuggestedRemedy change PAM2 to NRZ			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/00 SC 0	P 21	L 53	# 320				
Abbott, John	Corning						
Comment Type E change PAM2 to NRZ	Comment Status D		PAM				
SuggestedRemedy change PAM2 to NRZ							
Proposed Response PROPOSED ACCEPT.	Response Status W						

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

C/ 00 SC 0

D 1.0 Comment Report

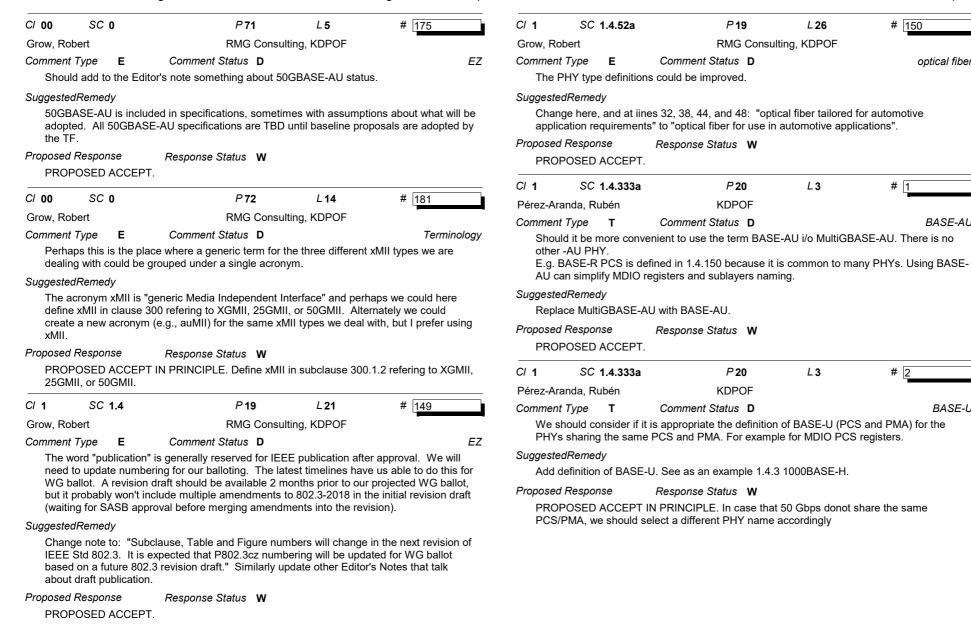
# 150

# 2

optical fiber

BASE-AU

BASE-U



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

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D 1.0 Comment Report

C/ 30	SC 30.3.2.1	P 21	L 20	# 3		C/ <b>44</b>	SC .
Pérez-Ara	anda, Rubén	KDPOF				Grow, Rol	oert
Comment	Туре Т	Comment Status D			PAM	Comment	Туре
optica	l PHYs and becau ken). For 50 Gb/s,	o/s, NRZ should be use ise optical signal is non there is no baseline ac	-return to zero (va	lues of zero or belo	ow are	text. I somet we mi	ing base I've four times or ght ever
	•	. Replace PAM-TBD wi	th TBD.				Std 802 ource rev
Proposed	Response	Response Status W				Suggested	lRemea
	POSED ACCEPT.						ample, as follo
CI 30	SC 30.3.2.1	P 22	L <b>3</b>	# 4		Proposed	Respon
Pérez-Ara	anda, Rubén	KDPOF				PROF	OSED
Comment	Туре Т	Comment Status D			PAM		
		o/s, NRZ should be use				C/ 44	SC
•		ise optical signal is non there is no baseline ac	,		ow are	Grow, Rol	
Suggested			•			Comment	•••
	•	. Replace PAM-TBD wi	th TBD.				PHY ty ications
	Response						e 44 coi
•	POSED ACCEPT.	Response Status W				Suggested	dRemea
	COLD ACCEL 1.					10 Gię	gabit Etł
C/ 30	SC 30.5.1.1.2	P 22	L 33	# 159		Media	Indepe
Grow, Rol	bert	RMG Co	nsulting, KDPOF			Proposed	Respon
Comment	Type E	Comment Status D			EZ	PROF	POSED
"temp	oral"?					C/ 44	SC
Suggested	dRemedy					Grow, Rol	oert
"Optic	al fiber" in the aM	AUType definitions sho	uld be updated to	reflect TBD specifi	cations.	Comment	
Proposed	Response	Response Status W					ort oper
PROF	POSED ACCEPT.					tailorir	ng the o
						Suggested	lRemea
							ort oper
							r text wł ations c
						Proposed	Respon
						PROF	POSED

C/ 44	SC 44.1.1	P 24	L 11	# 160
Grow, Rob	ert	RMG Consult	ing, KDPOF	
Comment T	Type E	Comment Status D		EZ

se text is difficult, and some reviewers will be checking for accuracy of base und it helpful to note the source of base text on change instructions (and on 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 02.3ch-2020" or "as last modified by P802.3xx/Dy.z" as we will want to indicate evision draft e.g., "P802.3/Dy.z" when we have one.

#### edy

e, this one would read: Change the first paragraph of 44.1.1 (IEEE Std 802.3chlows:

onse Response Status W

ACCEPT.

C/ 44	SC 44.1.1	P 24	L 14	# 161
Grow, Ro	bert	RMG Consu	lting, KDPOF	
Comment	tType T	Comment Status D		

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

#### edy

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

ACCEPT.

C/ 44	SC 44.1.2	P 24	L	# 151
Grow, Rob	pert	RMG Consu	lting, KDPOF	
Comment	Туре Е	Comment Status D		optical fiber

Comment Status D eration over optical fiber tailored for automotive applications." We aren't

optical fiber for automotive applications.

#### edy

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

Response Status W onse

ACCEPT IN PRINCIPLE. As for comment #150

TYPE: TR/technical required ER/editorial required GR/general required T/technical	al E/editorial G/general	C/ <b>44</b>	Page 7 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATU	JS: O/open W/written C/closed Z/withdrawn	SC 44.1.2	05/03/2021 22:38:47
SORT ORDER: Clause, Subclause, page, line			

#### 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/ 44 SC 44.1.2	P 24	L 23	# 162	C/ 44	SC 44.1.4.4	P 26	L <b>21</b>	# 7	
Grow, Robert	RMG Consult	ting, KDPOF		Pérez-Ar	anda, Rubén	KDPOF			
Comment Type E	Comment Status X		optical fiber	Commen	t Туре <b>Т</b>	Comment Status D			ΕZ
Change consistent v	vith 1.4 AU PHY type definitions	S.		Edito	r note. PMA is alre	eady defined.			
SuggestedRemedy				Suggeste	dRemedy				
Change: "Support of	peration over optical fiber tailor	ed for automotive	e applications" to	Repla	ace with "Dependir	ng on the PMD definition"			
"Support operation of	over optical fiber in automotive a	applications".		Proposed	l Response	Response Status W			
Proposed Response	Response Status W			, PRO	, POSED ACCEPT.	,			
PROPOSED ACCE	PT IN PRINCIPLE. See #251 ar	nd #150							
C/ 44 SC 44.1.3	P 25	L 44	# 5	C/ <b>44</b>	SC 44.1.4.4	P 26	L <b>39</b>	# 6	
Pérez-Aranda, Rubén	KDPOF				anda, Rubén	KDPOF			
Comment Type T	Comment Status D		BASE-U		t Туре <b>Т</b>	Comment Status D			ΕZ
• ·	e prefixed to provide more inform	mation of 64R/		Claus	se 300 specified P	CS, PMA and PMD.			
	ne criteria in perezaranda_3cz_			Suggeste	dRemedy				
to use a distinctive p	prefix for PCS and PMA sublaye	rs.		Repla	ace 10GBASE-AU	PCS & PMA with 10GBASE	-AU PCS/PMA/I	PMD	
SuggestedRemedy				-					
For 10 GBASE-AU,	replace PCS with BASE-U PCS	and PMA with B	ASE-U PMA.	'	Response	Response Status W			
Proposed Response	Response Status W			PRU	POSED ACCEPT.				
PROPOSED ACCE	PT.			C/ <b>44</b>	SC 44.1.4.4	P 27	L <b>6</b>	# 8	
C/ 44 SC 44.1.4	4 P 26	L21	# 164	Pérez-Ar	anda, Rubén	KDPOF			
Grow, Robert	RMG Consult	ting KDPOF		Commen	t Туре <b>Т</b>	Comment Status D		optic	al fiber
Comment Type E	Comment Status D		F7	Cons	istency				
"conveniently"?				Suggeste	dRemedy				
				Repla	ace with: "upon 64	B/65B coding encapsulated in	nto Reed-Solom	non frames that ar	е
SuggestedRemedy	to be modified to be consistent	with DNAA (DNAD	anagifications TPD "	mapp	ed to NRZ modula	ation for transmission on mul	timode optical fi	ber."	
		WIT PINA/PIND	specifications TBD.	Proposed	l Response	Response Status W			
Proposed Response	Response Status W					IN PRINCIPLE. Replace with			
PROPOSED ACCE	PT IN PRINCIPLE. Combine wit	th comment #7 a	nd delete PMA			nes that are mapped to NRZ blications.". See #150	modulation for	transmission on o	optical

CI 44 SC 44.1.4.4 Page 8 of 60 05/03/2021 22:38:47

D 1.0 Comment Report

C/ 44 SC Figure	44-1 P 25	L 37	# 163	C/ 45	SC 45.2.1	P 29	L 9	# 10
Grow, Robert	RMG Consult	ing, KDPOF		Pérez-Arar	ida, Rubén	KDPOF		
Comment Type <b>T</b>	Comment Status D		BASE-U	Comment 7	Гуре Т	Comment Status D		BASE-
The other five archite	ectural PCS sublayers have a n	ame, shouldn't w	/e?	Here B	ASE-AU is used	l i/o MultiGBASE-AU. A single	e term should b	e used across the draft.
SuggestedRemedy Add appropriate nem	ne for our chosen PCS, possibly	/ 64B/65B RS P0	CS.	Suggested. Do not	•	SE-AU is replaced with BASE	-AU.	
Proposed Response PROPOSED ACCEF	Response Status <b>W</b> PT IN PRINCIPLE. Proposal is t	o name as BAS	E-U PCS. See #5	Proposed F PROP	Response DSED ACCEPT	Response Status W		
C/45 SC 0	P 37	L 19	# 239	C/ 45	SC 45.2.1.6	P 28	L <b>43</b>	# 199
Hayashi, Takehiro	HAT Lab., Inc	<b>.</b>		Hayashi, T	akehiro	HAT Lab., Inc.		
Comment Type E If these sentences a	Comment Status X re requirements, "shall" should	be used.	shall statements	Comment T discrep	51	Comment Status <b>D</b>	45-7	E
SuggestedRemedy indicates ® shall indi	icate			Suggested Chose		er of 1.7.6:0 or 1.7.5:0		
Proposed Response PROPOSED REJEC	Response Status W T. This is a description, not a re	equirement		Proposed F PROP 1.7.6:0	, DSED ACCEPT	Response Status W IN PRINCIPLE. Change the E	Bit(s) column co	ontent from 1.7.5:0 to
C/ 45 SC 45.2.1	P 28	L 19	# 9	C/ 45	SC 45.2.1.21	a <i>P</i> 28	L 50	# 200
Pérez-Aranda, Rubén	KDPOF			Hayashi, T	akehiro	HAT Lab., Inc.		
other -AU PHY.Also E.g. BASE-R PCS is AU can simplify MDI	Comment Status D onvenient to use the term BASE in lines 35, 48 defined in 1.4.150 because it is O registers and sublayers nami	s common to ma		Comment	<sup>r</sup> ype <b>E</b> 5-103a is wrong Re <i>medy</i>	Comment Status D		E
SuggestedRemedy Replace MultiGBASI	E-AU with BASE-AU.			Proposed F	Response DSED ACCEPT	Response Status W		
Proposed Response PROPOSED ACCEF	Response Status W			1 Korv				

C/ **45** SC **45.2.1.21a** 

D 1.0 Comment Report

C/ <b>45</b>	SC 45.2.1.134	a.1 <i>P</i> 29	L <b>49</b>	# 201	C/ 45	SC 45.2.3	P 31	L 17	# 11
Hayashi, T	akehiro	HAT Lab., In	C.		Pérez-Ara	anda, Rubén	KDPOF		
Comment T	Гуре Е	Comment Status D		shall statements	Comment	Туре Т	Comment Status D		OA
If these	e sentence are re	quirements, "shall" should	be used.				f 1000BASE-H has been a		
Suggested	-	to 0000 the made of ener	ation is 2 ECDASI				PHYs do not share the sa SE-H OAM registers to b		
vvnen	inese dits are set	to 0000, the mode of operative	ation is 2.5GBASE	E-AU.	Suggested	dRemedy			
		to 0000, the mode of operative same as above		GBASE-AU.	should	d avoid repeating	U OAM registers set. New the full OAM specification	n of C/115. It should	d do a reference with
Proposed F	Response	Response Status W			specif	ic changes, as u	sed in other places in 802 BASE-H/U OAM. Option	.3. <u>see</u> Option 2: R	Rename 1000BASE-H
		N PRINCIPLE. The shall is ribed in Clause 300.	refered to the pro	oper use of this	text in OAM	C/45. However, channel for BAS	for consistency the same E-H and BASE-U, due to t	subclause should l he cross reference	be used for specifying es in C/45 to C/115.
C/ 45	SC 45.2.3	P 31	L <b>8</b>	# 169		es C/115 mainter eferred.	nance request.	1 avoid C/115 mod	lification. It is suggested
Grow, Rob	ert	RMG Consu	lting, KDPOF			Response	Response Status W		
Comment T	Гуре Е	Comment Status D	-	EZ	,	,	IN PRINCIPLE. Option 1		
Also, w value b	ve are trying to us being included in	t agree with the table that o e "through" instead of "to" t a range.				SC <b>45.2.3</b> anda, Rubén	P 31 KDPOF	L <b>29</b>	# 12
Suggested new ro	,	1.523 through 1.526			Comment They a		Comment Status D s. BASE-U PCS xxx nami	ng is more appropr	BASE iate. Also in lines 30, 3 <sup>,</sup>
Proposed F	Response OSED ACCEPT.	Response Status W			Suggester		AU with BASE-U.		
					,	<i>Response</i> POSED ACCEPT	Response Status W		
					C/ <b>45</b>	SC 45.2.3	P 31	L 33	# 13
					Pérez-Ara	anda, Rubén	KDPOF		
					Comment	Туре Т	Comment Status D	L	Loopback and test mod
					consis mode	stent with the bas , required in othe	PCS status 4 reg are not i seline (remote link margin) er automotive PHY layers,	. PCS status 4 is p	laceholder for BER test
					adopte	ed yet.			
					adopte Suggested	•			
					Suggested	dRemedy	the table for consistency.		
					Suggested Add th	dRemedy	the table for consistency. Response Status W		

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Cl <b>45</b>	SC 45.2.3	P 31	L 41	# 202	C/ <b>45</b>	SC 45.2.3.5t	P 36	L 14	# 226
Hayashi, Ta	akehiro	HAT Lab., Inc			Hayashi,	Takehiro	HAT Lab., Inc.		
Comment 7	<i>уре</i> Е	Comment Status D		shall statements	Comment	Туре Е	Comment Status D		EZ
If these	sentence are re	quirements, "shall" should be	e used.		Comp	paring to other na	mes in the table, "local" may be	e added.	
Suggested	Remedy				Suggeste	dRemedy			
Registe	ers 3.500 through	n 3.508 are used …			EEE	ability ® local EE	E ability		
↓ Registe	ers 3.500 through	n 3.508 shall be used …			,	Response	Response Status W		
Proposed F	Response	Response Status W			PRO	POSED ACCEPT			
		Shall statements are include		5, and the procedure	C/ 45	SC 45.2.3.5t	P 36	L 17	# 227
and cor	ntents of the regi	ster is just a description here			Hayashi,	Takehiro	HAT Lab., Inc.		
C/ <b>45</b>	SC 45.2.3	P 31	L 45	# 203	Comment	Туре Е	Comment Status D		EZ
Hayashi, Ta	akehiro	HAT Lab., Inc			"LH =	Latching high" is	not used in the table.		
Comment T	ype E	Comment Status D		shall statements	Suggeste	dRemedy			
If these	e sentence are re	quirements, "shall" should be	e used.		delete	e it from the foot r	note.		
Suggested	Remedy				Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
The tra	nsmit registers a	re used to			PRO	POSED ACCEPT			
↓ The tra	nsmit registers s	hall be used to			C/ 45	SC 45.2.3.47	'b <i>P</i> 35	L 51	# 16
Proposed F	0	Response Status W				anda. Rubén	KDPOF	251	# 10
PROPO	, DSED REJECT.	Shall statements are include	ed in Clause 11	5, and the procedure		<i>Type</i> <b>T</b>	Comment Status D		EEE registers
and cor	ntents of the regi	ster is just a description here	<b>e</b> .			51	e not included. It is not consist	ent with the FI	
C/ 45	SC 45.2.3.5b	P 36	L12	# 225		e bits.			
Hayashi, Ta	akehiro	HAT Lab., Inc			Suggeste	dRemedy			
Comment T		Comment Status D		EZ			t LPI received, Rx Assert LPI g	,	PI indication, Rx LPI
		nes in the table, "local" may l	be added.			•	specific LPI signaling in XGMI	, 25GMII, etc.	
Suggested	Remedv				1	Response	Response Status W		
	•	local BASE-H OAM ability					IN PRINCIPLE. LPI mode has ral to any PHY supporting EEE		
Proposed F	Response	Response Status W			regist	Sid are very gene		-, 1141 15 part 0	
	DSED ACCEPT.								

C/ 45 SC 45.2.3.47b Page 11 of 60 05/03/2021 22:38:48

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C/ <b>45</b>	SC 45.2.3.47b	P 36	L <b>5</b>	# 17	Cl 45 SC 45.2.3.47b.7 P 37 L 3 # 231
Pérez-Arano	da, Rubén	KDPOF			Hayashi, Takehiro HAT Lab., Inc.
Comment Ty Using B	<i>ype</i> <b>T</b> Comm BASE-H is confusing. Als	nent Status <b>D</b> o in line 12		OAM	Comment Type         E         Comment Status         X         shall statements           If these sentence are requirements, "shall" should be used.         Shall statements         Shall statements
SuggestedR BASE-L	Remedy J or BASE-H/U per decis	ion by TF.			SuggestedRemedy indicates ® shall indicate
Proposed R		nse Status W			Proposed Response Response Status W
PROPO	SED ACCEPT IN PRIN	CIPLE. OAM BASE	-U is proposed to	or consistency.	PROPOSED REJECT. This is a description, not a requirement
C/ 45	SC 45.2.3.47b	P 37	L 1	# 18	C/ 45 SC 45.2.3.47b.7 P37 L4 # 234
Pérez-Arano	,	KDPOF			Hayashi, Takehiro HAT Lab., Inc.
Comment Ty Using B	ype <b>T</b> Comn BASE-H is confusing. Als	nent Status <b>D</b> o in line 16		OAM	Comment Type         E         Comment Status         X         shall statements           If these sentences are requirements, "shall" should be used.         Shall statements         Shall statements
SuggestedR BASE-L	Remedy J or BASE-H/U per decis	ion by TF.			SuggestedRemedy indicates ® shall indicate
Proposed R PROPO	esponse Response Response	nse Status <b>W</b> CIPLE. #See 17			Proposed Response Response Status W PROPOSED REJECT. This is a description, not a requirement
C/ <b>45</b>	SC 45.2.3.47b.1	P 36	L <b>22</b>	# 228	C/ 45 SC 45.2.3.47b.8 P 37 L 11 # 236
Hayashi, Ta	akehiro	HAT Lab., In	IC.		Hayashi, Takehiro HAT Lab., Inc.
Comment Ty If these	ype E Comn sentence are requireme	nent Status <b>D</b> nts, "shall" should l	be used.	shall statements	Comment Type         E         Comment Status         X         shall statements           If these sentences are requirements, "shall" should be used.         Shall statements         Shall statements
SuggestedR reflects	Remedy ® shall reflect				SuggestedRemedy indicates ® shall indicate
Proposed R PROPO	esponse Response	nse Status W description, not a	requirement		Proposed Response Response Status W PROPOSED REJECT. This is a description, not a requirement
C/ 45	SC 45.2.3.47b.6	P 36	L <b>48</b>	# 230	C/ 45 SC 45.2.3.47b.9 P 37 L 18 # 238
Hayashi, Ta Comment Ty If these		HAT Lab., In <i>nent Status</i> X nts, "shall" should l		shall statements	Hayashi, Takehiro       HAT Lab., Inc.         Comment Type       E       Comment Status       X       shall statements         If these sentences are requirements, "shall" should be used.       Shall statements       Shall statements
SuggestedR reflects	Remedy ® shall reflect				SuggestedRemedy indicates ® shall indicate
Proposed Re PROPO	SED REJECT. This is a	nse Status W description, not a	requirement		Proposed Response Response Status W PROPOSED 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 60 05/03/2021 22:38:48

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CI 45 SC 45.2.3.47b.10 P 37 L 26	# 233	C/ 45 SC 45.2.3.47c.1 P 37 L 48 # 19
Hayashi, Takehiro HAT Lab., Inc.		Pérez-Aranda, Rubén KDPOF
Comment Type E Comment Status X	shall statements	Comment Type T Comment Status D Cross reference
If these sentence are requirements, "shall" should be used.		Reference to 115 should be avoided to avoid confusion. If finally we use same FP format
SuggestedRemedy indicates ® shall indicate		(we should), a reference in C/300 to C/115 should be added. I suggest restricting the references to C/115 in C/45 just to the minimum for OAM, in case of reusing same registers of 1000BASE-H. Easier for maintenance. Avoid confusion.
Proposed Response Response Status W		SuggestedRemedy
PROPOSED REJECT. This is a description, not a requirement		Replace with a cross reference to C/300.
Cl         45         SC         45.2.3.47b.10         P 37         L 28           Hayashi, Takehiro         HAT Lab., Inc.	# 240	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type E Comment Status X	shall statements	C/ 45 SC 45.2.3.47d.1 P38 L13 # 242
If these sentences are requirements, "shall" should be used.		Hayashi, Takehiro HAT Lab., Inc.
SuggestedRemedy		Comment Type E Comment Status X shall statements
indicates ® shall indicate		If these sentences are requirements, "shall" should be used.
Proposed Response Response Status W		SuggestedRemedy
PROPOSED REJECT. This is a description, not a requirement		report ® shall report
C/ 45 SC 45.2.3.47c.1 P 37 L 47	# 241	Proposed Response Response Status W
	# 241	PROPOSED REJECT. This is a description, not a requirement
Hayashi, Takehiro   HAT Lab., Inc.     Comment Type   E   Comment Status	shall statements	C/ 45 SC 45.2.3.47d.1 P38 L15 # 20
If these sentences are requirements, "shall" should be used.	Shan Statements	Pérez-Aranda, Rubén KDPOF
SuggestedRemedy		Comment Type T Comment Status D Cross reference
indicates ® shall indicate		Reference to 115 should be avoided to avoid confusion. If finally we use same FP format
Proposed Response Response Status W		(we should), a reference in C/300 to C/115 should be added. I suggest restricting the
PROPOSED REJECT. This is a description, not a requirement		references to C/115 in C/45 just to the minimum for OAM, in case of reusing same registers of 1000BASE-H. Easier for maintenance. Avoid confusion.
		Suggested Remedy
		Replace with a cross reference to C/300.
		Proposed Response Response Status W
		PROPOSED 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

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# D 1.0 Comment Report

CI 45	SC 45.2.3.50.1	P 32	L <b>34</b>	# 204	CI <b>45</b>	SC 45.2.3.5	0.3	P 32	L 50	# 207
Hayashi, <sup>·</sup>	Takehiro	HAT Lab., In	с.		Hayashi, ⊺	Fakehiro		HAT Lab., Inc	с.	
Comment	Type E Comm	ent Status D		shall statements	Comment	Туре Е	Comment	Status D		shall statements
If thes	e sentence are requiremen	its, "shall" should b	be used.		If thes	e sentence are	requirements,	"shall" should b	be used.	
Suggested	dRemedy				Suggested	Remedy				
reque	sts ® shall request				reflect	s ® shall reflect				
Proposed	Response Respon	se Status 🛛 🛛 🛛 🛛 🛛 🗤			Proposed	Response	Response	Status <b>W</b>		
	POSED REJECT. Shall state ontents of the register is just			, and the procedure		OSED REJECT				5, and the procedure
CI <b>45</b>	SC 45.2.3.50.1	P 32	L 35	# 205	C/ <b>45</b>	SC 45.2.3.5	0.4	P 33	L3	# 208
Hayashi, <sup>·</sup>	Takehiro	HAT Lab., In	с.		Hayashi, ⊺	Fakehiro		HAT Lab., Inc	с.	-
Comment	Type E Comm	ent Status D		shall statements	Comment	Туре Е	Comment	Status D		shall statements
If thes	e sentence are requiremen	its, "shall" should b	be used.		If thes	e sentence are	requirements,	"shall" should b	be used.	
Suggested	dRemedy				Suggested	Remedy				
Bit 3.5	500.15 is set to zero by the	1000BASE-H base	ed PHY to indicat	e that	is use	d ® shall be use	ed, is changed	® shall be char	nged	
↓ Bit3P	500.15 set to zero by the 10	100BASE-H based	PHV shall indica	te that	Proposed	Response	Response	Status <b>W</b>		
	-	se Status W								ō, and the procedure
,	POSED REJECT. Shall sta		ed in Clause 115	and the procedure	and co	ontents of the re	egister is just a	description her	e.	
	ontents of the register is jus				C/ 45	SC 45.2.3.5	0.4	P 33	L <b>4</b>	# 209
C/ 45	SC 45.2.3.50.2	P 32	L 45	# 206	Hayashi, ⊺	Fakehiro		HAT Lab., Inc	с.	
Hayashi, <sup>-</sup>		HAT Lab., In			Comment	Туре Е	Comment	Status D		EZ
Comment		ent Status D	0.	shall statements	blacke	et ( ) is not nece	ssary			
	se sentence are requiremen		e used	shan statements	Suggested	Remedy				
Suggested		,						simultaneously	setting bit 3.500	.15 to zero), acting as
	ts ® shall reflect				a one	bit sequence nu	umber.			
		se Status W						acting as a one	bit sequence nu	mber, simultaneously
PROF	OSED REJECT. Shall sta		ed in Clause 115	, and the procedure		00.15 shall be s		<b>.</b>		
	ontents of the register is jus				Proposed	,	Response	Status <b>W</b>		
					PROP	OSED ACCEP	Τ.			

C/ 45 SC 45.2.3.50.4 Page 14 of 60 05/03/2021 22:38:48

# D 1.0 Comment Report

SC 45.2.3.50.5 P 33 L 9 # 210	C/ 45 SC 45.2.3.51 P 33 L 23 # 213
shi, Takehiro HAT Lab., Inc.	Hayashi, Takehiro HAT Lab., Inc.
nent Type E Comment Status D shall stater	nts Comment Type E Comment Status X shall statement
these sentence are requirements, "shall" should be used. nd the sentence after "and" may be incomplete.	The sentence after "and" may be imcomplete.
estedRemedy pontains ® shall contain	SuggestedRemedy registers 3.510 through 3.517 the following 128 bits ↓
relators 2 501 through 2 509 (TVO DATA1 through TVO DATA9) the remaining 109 k	registers 3.510 through 3.517 shall contain the following 128 bits
egisters 3.501 through 3.508 (TXO_DATA1 through TXO_DATA8) the remaining 128 b	Proposed Response Response Status W
egisters 3.501 through 3.508 (TXO_DATA1 through TXO_DATA8) shall contai the maining 128 bits of	PROPOSED REJECT. Shall statements are included in Clause 115, and the procedure and contents of the register is just a description here.
sed Response Response Status W	C/ 45 SC 45.2.3.51.1 P 34 L 3 # 214
ROPOSED REJECT. Shall statements are included in Clause 115, and the procedure	Hayashi, Takehiro HAT Lab., Inc.
nd contents of the register is just a description here.	Comment Type E Comment Status X shall statement
SC 45.2.3.51 P 33 L 21 # 211	If these sentence are requirements, "shall" should be used.
shi, Takehiro HAT Lab., Inc.	SuggestedRemedy
nent Type E Comment Status X shall stater	sets ® shalll set
these sentence are requirements, "shall" should be used.	Proposed Response Response Status W
estedRemedy ore ® shall sore	PROPOSED REJECT. Shall statements are included in Clause 115, and the procedure and contents of the register is just a description here.
sed Response Response Status W	C/ 45 SC 45.2.3.51.1 P 34 L 4 # 215
ROPOSED REJECT. Shall statements are included in Clause 115, and the procedure	Hayashi, Takehiro HAT Lab., Inc.
nd contents of the register is just a description here.	Comment Type E Comment Status X shall statement
SC 45.2.3.51 P 33 L 22 # 212	If these sentence are requirements, "shall" should be used.
shi, Takehiro HAT Lab., Inc.	SuggestedRemedy
nent Type E Comment Status X shall stater	sets ® shall set
these sentence are requirements, "shall" should be used.	Proposed Response Response Status W
es <i>tedRemedy</i> ontains ® shall contain	PROPOSED REJECT. Shall statements are included in Clause 115, and the procedure and contents of the register is just a description here.
sed Response Response Status W	

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C/ 45 SC 45.2.3.51.1 P34 L6 #	216	C/ 45	SC 45.2.3	51 3	P 34	L 16	# 219
Havashi, Takehiro HAT Lab., Inc.	210	Hayashi, T		.51.5	HAT Lab., Ind		# 219
	shall statements	Comment	Туре Е	<i>Comme</i> 'and" may be i	ent Status X	с.	shall statements
SuggestedRemedy does not update ® shalll not update		Suggested registe	<i>IRemedy</i> ers 3.510 thro	ugh 3.517			
Proposed Response Response Status W		↓ reaiste	ers 3.510 thro	ugh 3.517 sha	all contain		
PROPOSED REJECT. Shall statements are included in Clause 115, and the and contents of the register is just a description here.	procedure	Proposed I	Response	Respons	se Status 🛛 🛛 🛛 🖤	ad in Clause 115	and the procedure
C/ 45 SC 45.2.3.51.2 P 34 L 11 #	217				a description her		and the procedure
Hayashi, Takehiro HAT Lab., Inc.	<u> </u>	C/ <b>45</b>	SC 45.2.3	.56a	P 34	L 25	# 220
	shall statements	Hayashi, T	Takehiro		HAT Lab., In	с.	
if these sentence are requirements, "shall" should be used.		Comment	Туре Е	Comme	ent Status D		shall statements
SuggestedRemedy		If these	e sentence ar	e requirement	s, "shall" should b	be used.	
changes ® shall change		Suggested	IRemedy				
Proposed Response Response Status W		is chos	sen ® shall be	e chosen			
PROPOSED REJECT. Shall statements are included in Clause 115, and the and contents of the register is just a description here.	procedure	Proposed I PROP	•	1	se Status <b>W</b> escription, not a r	equirement	
	218	C/ 45	SC 45.2.3		P 34	L 43	# 14
Hayashi, Takehiro HAT Lab., Inc.				.50a	KDPOF	L 43	# 14
	shall statements	Comment	nda, Rubén <i>Tvpe</i> <b>T</b>	Comme	ent Status D		OAM
if these sentence are requirements, "shall" should be used.			BASE-H is co				OAM
SuggestedRemedy contains ® shall contain		Suggested	lRemedv	-			
		00	,	I/U per decisio	n by TF.		
Proposed Response Response Status W PROPOSED REJECT. Shall statements are included in Clause 115, and the	procedure	Proposed I		•	se Status W		
and contents of the register is just a description here.	-	PROP	OSED ACCE	PT IN PRINCI	PLE. #See 17		

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

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Cl <b>45</b>	SC 45.2.3.56a.1	P 35	L <b>4</b>	# 221	C/ <b>45</b>	SC 45.2.3.56	a.4 P 35	L 25	# 224	
Hayashi, 1	Takehiro	HAT Lab., In	IC.		Hayashi,	Takehiro	HAT Lab., Ir	nc.		
<i>Comment</i> "test n	<i>Type</i> <b>E</b> <i>Con</i> node" is not found in tab	nment Status <b>D</b> e 45-226a		Loopback and test modes	<i>Comment</i> add th	<i>Type</i> <b>E</b> ne table reference	Comment Status D of "bit 3.524.0"			EZ
Suggested add ex	<i>IRemedy</i> «planation of "test mode"	in table 45-226a			<i>Suggester</i> (bit 3.	dRemedy 524.0 = 0, see tal	ole 45-226b)			
Proposed PROP	Response Resp OSED ACCEPT IN PRI	onse Status <b>W</b> NCIPLE. Add some p	placeholder fo	or test modes.	,	Response POSED ACCEPT	Response Status W			
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-Ara	nda, Rubén	KDPOF			Hayashi,	Takehiro	HAT Lab., Ir	IC.		-
	<i>Type</i> <b>T</b> Con BASE-H is confusing.	nment Status D		OAM	<i>Comment</i> "0" is	51	Comment Status <b>D</b> article is not used.			EZ
Suggested BASE	<i>IRemedy</i> -U or BASE-H/U per dec	ision by TF.			Suggester delete					
Proposed PROP	Response Resp OSED ACCEPT IN PRI	onse Status W NCIPLE. See #17				Response POSED ACCEPT	Response Status W			
CI 45	SC 45.2.3.56a.3	P 35	L 15	# 222	C/ 45	SC 45.5.3.7	P 40	L <b>32</b>	# 243	
Hayashi, 1	Takehiro	HAT Lab., In	IC.		Hayashi,	Takehiro	HAT Lab., Ir	nc.		
Comment If thes	<i>Type</i> <b>E</b> <i>Con</i> e sentence are requirem	nment Status <b>D</b> ents, "shall" should l	be used.	shall statements	<i>Comment</i> "1" is	21	Comment Status <b>D</b> article is not used.			EZ
Suggested contro	<i>IRemedy</i> Is ® shall control				Suggester delete	-				
Proposed PROP	Response Resp OSED REJECT. This is	onse Status W a description, not a	requirement			Response POSED ACCEPT	Response Status W			
C/ <b>45</b>	SC 45.2.3.56a.3	P 35	L 16	# 223	C/ 45	SC 45.5.3.7	P 40	L 36	# 172	
Hayashi, 1	Takehiro	HAT Lab., In	IC.		Grow, Ro	bert	RMG Consu	llting, KDPOF		
<i>Comment</i> add th	Type E Con e table reference of "bit	nment Status D 3.524.1"		EZ	<i>Comment</i> Value	••	Comment Status D n does not include strikethre	ough of "1000'.		EZ
Suggested (bit 3.5	<i>IRemedy</i> 524.1 = 0, see table 45-2	26b)			<i>Suggester</i> Strike	<i>dRemedy</i> through. Also p.	51, l. 8			
Proposed	Response Resp OSED ACCEPT.	onse Status W				Response POSED ACCEPT	Response Status W			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/45Page 17 of 60COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 45.5.3.705/03/2021 22:38:48SORT ORDER: Clause, Subclause, page, line

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C/ 45 SC 45.5.3.7	P 40	L 36	# 245		C/ <b>45</b>	SC 45.5.3.7	P4	11	L 38	# 249	
Hayashi, Takehiro	HAT Lab., Inc.				Hayashi, <sup>°</sup>	Takehiro	HAT	Lab., Inc.			
Comment Type E 1000BASE-H may typ	Comment Status D			ΕZ	Comment "1" is	51	Comment Status in article is not used.	D			E
SuggestedRemedy 1000BASE-H ® BASE	:-Н				Suggested delete	•					
Proposed Response PROPOSED ACCEP <sup>-</sup>	Response Status W					Response POSED ACCEP	Response Status	w			
C/ 45 SC 45.5.3.7	P 41	L 19	# 246		C/ <b>45</b>	SC 45.5.3.7	P4	11	L 41	# 250	
Hayashi, Takehiro	HAT Lab., Inc.				Hayashi, <sup>*</sup>	Takehiro	HAT	Lab., Inc.		_	
Comment Type E Table 45-226b is a wr	Comment Status <b>D</b> ong reference.			EZ	Comment "0" is	51	Comment Status in article is not used.	D			Ež
SuggestedRemedy Table 45-226a					Suggestee delete	-					
Proposed Response PROPOSED ACCEP	Response Status W				,	Response POSED ACCEP	Response Status Г.	w			
C/ 45 SC 45.5.3.7	P 41	L <b>27</b>	# 247		C/ <b>45</b>	SC Table 4	5-176 P 3	81	L17	# 171	
Hayashi, Takehiro	HAT Lab., Inc.				Grow, Ro	bert	RMG	6 Consulting	, KDPOF		
Comment Type E	Comment Status D			EZ	Comment	Туре Т	Comment Status	D			OAI
"1" is just a number, a	n article is not used.						or "1000BASE-H" to '				
SuggestedRemedy							y could be challenged	l as being ou	ut of scope for	r our PAR.	
delete "a"					Suggestee					in altraine an enaut	- 6 4 4
Proposed Response PROPOSED ACCEP	Response Status W				adopt	ion of 1000BASI the changes via	y determine if the cha E-H OAM for the AU F a maintenance reque	PHY types.	Other options	s to consider inclu	ude
CI 45 SC 45.5.3.7	P 41	L 30	# 248		-	Response	Response Status	w			
Hayashi, Takehiro	HAT Lab., Inc.				PROF		Γ IN PRINCIPLE. See	#11 and #1	17		
Comment Type <b>E</b> "0" is just a number, a	Comment Status <b>D</b> n article is not used.			EZ							
SuggestedRemedy delete "a"											
Proposed Response PROPOSED ACCEP <sup>-</sup>	Response Status W										

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

C/ 45 SC Table 45-176

D 1.0 Comment Report

Cl <b>45</b>	SC Table 45-		P 31	L <b>30</b>	# 170	C/ <b>45</b>	SC Tab	ole 45-7	P 29	L7	# 167
Grow, Rob			MG Consultir	ng, KDPOF		Grow, Ro			RMG Consultir	ıg, KDPOF	
Comment	51	Comment Star				EZ Commen			Comment Status D		
rows.		nge and insert ins	struction, I th	ink we should ur	nderline the inserted	value	s are defin	ed by othe	y won't look like this in the er amdments in progress. also defined by P802.3ck/I	More importantl	
Suggested							dRemedy	types is c		, 1. 7.	
	line the rows for 1	.523 through 1.5	26					this time if	P802.3ck will be included	in the revision	but 3ck started to us
Proposed I PROP	Response POSED ACCEPT.	Response Stat	us <b>W</b>			the v availa	alue first, so able below t	we shoul he values	d change our value. There specified by P802.3cp (e.ç	e are a few rese g.,100011x foun	erved values still nd in IEEE Std 802.3cd
C/ 45	SC Table 45-	3	P 28	L 20	# 165				aft), or we can use some c 11001 or numerically great		alues above those
Grow, Rob	pert	R	MG Consultir	ng, KDPOF		Proposed	Response	R	esponse Status 🛛 🛛 🛛 🛛 🛛 🖉		
Comment	Туре Т	Comment Sta	tus <b>D</b>			EZ PRO	POSED AC	CEPT.			
Regist	ter 1.26 is defined	by IEEE Std 80	2.3cn.			C/ <b>45</b>	SC Tat	ole 45-7	P 29	L12	# 168
Suggested	lRemedy					Grow. Ro			RMG Consultir		
Remov	ve the reserved ro	SW.				Commen		(	Comment Status D	.9,	
Proposed I	Response	Response Stat	us W						ere is a footnote c for 1.90	0 BASE-H.	
PROP	POSED ACCEPT.						dRemedy	,			
C/ 45	SC Table 45-	3	P 28	L 32	# 166		note should	be d (also	on line 9).		
			<b></b>	KDDOE			-		04-4		
Grow, Rob	pert	R	MG Consulti	ng, KDPOF		Proposed	Response		esponse Status W		
,		RI Comment Stat	MG Consultir tus <b>D</b>	NG, KDPOF			Response		esponse Status w		
Comment		Comment Star	tus D			EZ PRO	POSED AC	CEPT.			# 251
Comment Regist	<i>Type</i> <b>T</b> ter 1.1000 through	Comment Star	tus D			EZ PRO C/ 105	POSED AC	CEPT.	Р <b>47</b>	L <b>24</b>	# 251
Comment Regist Suggested I sugge	<i>Type</i> <b>T</b> ter 1.1000 through <i>Remedy</i> lest going to the 1	Comment Stat h 1.1002 are used .901-1.999 reser	<i>tus</i> <b>D</b> d by IEEE St ved block (1.	td 802.3ca. .900 is BASE-H,	use IEEE Std	EZ PRO C/ 105 Hayashi,	POSED AC SC 105 Takehiro	CEPT. 5.1.1	Р <b>47</b> НАТ Lab., Inc.		
Comment Regist Suggested I sugg 802.3c	<i>Type</i> <b>T</b> ter 1.1000 through <i>Remedy</i> lest going to the 1 ca for base text wi	Comment Stat h 1.1002 are used .901-1.999 reser here reserved rat	tus <b>D</b> d by IEEE St ved block (1. nge is chang	td 802.3ca. .900 is BASE-H, led). I didn't find	use IEEE Std any other approved	EZ PRO Cl 105 Hayashi, or Commen	SC 108 SC 108 Takehiro	СЕРТ. 5.1.1	P <b>47</b> HAT Lab., Inc. Comment Status <b>D</b>		# 251
Comment Regist Suggested I sugg 802.3c active	Type <b>T</b> ter 1.1000 through <i>dRemedy</i> est going to the 1 ca for base text wi amendment proje	Comment Stat h 1.1002 are used .901-1.999 reser here reserved rat ects in this registe	tus <b>D</b> d by IEEE St ved block (1. nge is chang er range and	td 802.3ca. .900 is BASE-H, ied). I didn't find would recomme	use IEEE Std any other approved and 1.901 for	EZ PRO C/ 105 Hayashi, or Commen The o	POSED AC SC 105 Takehiro <i>Type</i> T cabling won	СЕРТ. 5.1.1	Р <b>47</b> НАТ Lab., Inc.		
Comment Regist Suggested I sugge 802.3c active "MultiC footno	<i>Type</i> <b>T</b> ter 1.1000 through <i>Remedy</i> lest going to the 1 ca for base text wi amendment proje GBASE-AU PMA/ ted) to Table 45-	Comment Star h 1.1002 are used .901-1.999 reser here reserved rar ects in this registe 'PMD control". If 7 also needs to b	tus <b>D</b> d by IEEE St ved block (1. nge is chang er range and the register of be updated to	td 802.3ca. .900 is BASE-H, led). I didn't find would recomme changes, Footno point at the sele	use IEEE Std any other approved and 1.901 for ote c (should be ected register. Also	EZ PRO Cl 105 Hayashi, or Commen The o Suggeste	POSED AC SC 105 Takehiro Type T cabling won' dRemedy	CEPT. 5.1.1 ( t be a sing	P 47 HAT Lab., Inc. Comment Status D gle fiber structure.		
Comment Regist Suggested I sugge 802.3c active "MultiC footnot will net	<i>Type</i> <b>T</b> ter 1.1000 through <i>Remedy</i> lest going to the 1 ca for base text wi amendment proje GBASE-AU PMA/ ted ) to Table 45- red to change the	Comment Star h 1.1002 are used .901-1.999 reser here reserved ratects in this registe (PMD control". If 7 also needs to b subclause title at	tus <b>D</b> d by IEEE St ved block (1. nge is chang er range and the register of be updated to	td 802.3ca. .900 is BASE-H, led). I didn't find would recomme changes, Footno point at the sele	use IEEE Std any other approved and 1.901 for ote c (should be	EZ PRO Cl 105 Hayashi, or Commen The o Suggeste he a opt	POSED AC SC 105 Takehiro Takehiro Takehiro Takehiro Takehiro Calfiber ® a	CEPT. 5.1.1 t be a sing a pair of m	P 47 HAT Lab., Inc. Comment Status D gle fiber structure.		
Comment Regist Suggested I sugge 802.3c active "MultiC footnoi will ne	<i>Type</i> <b>T</b> ter 1.1000 through <i>dRemedy</i> est going to the 1 ca for base text wi amendment proje GBASE-AU PMA/ ted ) to Table 45- red to change the column at p. 30, 1	Comment Star h 1.1002 are used .901-1.999 reser here reserved ratects in this registe (PMD control". If 7 also needs to b subclause title at	tus <b>D</b> d by IEEE St rved block (1. nge is change er range and the register of be updated to t p. 29, l. 47,	td 802.3ca. .900 is BASE-H, led). I didn't find would recomme changes, Footno point at the sele	use IEEE Std any other approved and 1.901 for ote c (should be ected register. Also	EZ PRO C/ 105 Hayashi, or Commen The of Suggeste he a opt Proposed	POSED AC SC 105 Takehiro Type T cabling won' dRemedy ical fiber ® a Response	CEPT. 5.1.1 t be a sing a pair of m <i>R</i>	P 47 HAT Lab., Inc. Comment Status D gle fiber structure.		

C/ 105 SC 105.1.1

D 1.0 Comment Report

C/ 105	SC 105.1.3	P <b>45</b>	L <b>34</b>	# 21
Pérez-Aran	da, Rubén	KDPOF		
Comment T	ype E	Comment Status D		optical fiber

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

#### SuggestedRemedy

25GBASE-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 25 Gb/s Ethernet over a multimode optical fiber tailored for automotive applications. 25GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber.

#### Proposed Response Response Status W

#### PROPOSED ACCEPT IN PRINCIPLE.

Ε

"25GBASE-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 25 Gb/s Ethernet over a multimode optical fiber for automotive applications. 25GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber."

C/ 105	SC 105.1.3	P <b>45</b>	L 35	# 152
Grow, Rol	pert	RMG Consul	ting, KDPOF	

Comment Type

Comment Status D

optical fiber

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

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..."

### Proposed Response Response Status W

PROPOSED REJECT. Sugested remedy seems to be unrelated with the comment. See comment #191

C/ 105	SC 105.1.3	P 45	L 37	# 324
Abbott, Jo	hn	Corning		
Comment chang	<i>Type</i> <b>E</b> e PAM2 to NRZ	Comment Status D		PAM
Suggested chang	dRemedy e PAM2 to NRZ			
Proposed PROP	Response POSED ACCEPT.	Response Status W		
C/ 105	SC 105.1.3	P 46	L <b>46</b>	# 22
Pérez-Ara	inda, Rubén	KDPOF		
Comment Nome		Comment Status D 105-1 is not consistent with	Figure 44-1.	BASE-U
Suggested	Remedy			

Replace 25GBASE-AU PCS with BASE-U PCS. Replace PMA with BASE-U PMA.

Proposed Response	Response Status	W
PROPOSED ACCEPT.	See #5	

C/ 105	SC 105.1.3	P 47	L 27	# 23
Pérez-Ara	nda, Rubén	KDPOF		

Comment Type E Comment Status D

The term RS-FEC is already in use for referring other clauses. It can generate confusion (e.g. same RS of 25GBASE-T?)

### SuggestedRemedy

Replace with: "25 Gb/s PHY using 64B/65B and Reed-Solomon encoding with NRZ modulation over multimode optical fiber tailored for automotive applications (see Clause 300)."

### Proposed Response Response Status W

PROPOSED REJECT.

RS-FEC is defined as an acronym refering to Reed-Solomon Forward Error Correction, and it does not means an specific Reed-Solom FEC coding scheme.

C/ 105 SC 105.1.3 Page 20 of 60 05/03/2021 22:38:48

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/ 105	SC 105.3.2	P 4	8	L <b>48</b>	# 24	
Pérez-Ara	anda, Rubén	KDPO	DF			
Comment	Туре Т	Comment Status	D			Details
	details compared dingly.	with PMA and PMD	. Will need to	be updat	ted with C/300	
Suggeste	dRemedy					
Repla	ice text with: "The	25GBASE-AU PCS	is specified in	Clause	300."	
,	<i>Response</i> POSED ACCEPT.	Response Status	w			
C/ 105	SC Table 10	5-1 <i>P</i> 4	7	L 27	# 153	
Grow, Ro	bert	RMG	Consulting, K	DPOF		
Comment	Type E	Comment Status	D		optic	al fiber
Suggester Chan	d <i>Remedy</i> ge "over an optica	bus (i.e., PHY or the	, tomotive appli			0
	•	se in automotive app	,	Clause	300).	
'	Response	Response Status IN PRINCIPLE. See		0		
FROF	-OSED ACCEPT	IN FRINCIFLE. See	#201 and #10	0		
C/ 105	SC Table 105	5-2 P4	8	L 20	# 173	
Grow, Ro	bert	RMG	Consulting, K	DPOF		
Comment "25 B	<i>Type</i> <b>E</b> ASE-AU" is missi	<i>Comment Status</i> ng the "G".	D			EZ
Suggester 25GB	dRemedy ASE-AU …					
•	Response POSED ACCEPT.	Response Status	W			

C/ 115	SC 115	P 51	L <b>1</b>	# 25
Pérez-Ara	anda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		OAN
despit		id modifications in clause 115, more repeated text in clause 4	•	-
Suggested Avoid	<i>dRemedy</i> maintenance req	uest for C/115.		
•	Response POSED ACCEPT.	Response Status W		
C/ 115	SC 115.3.4	P 51	L 10	# 128
Wienckow	vski, Natalie	General Motors		
<i>Comment</i> Sub-c		<i>Comment Status</i> <b>D</b> to be included in the draft since	sub-clauses t	OAN to it are included.
Suggested Add "	,	edium Attachment (PMA) subla	yer" before 11	15.3.4.

PROPOSED REJECT. OAM definition will be included in Clause 300 if comment #11 is approved by TF. Therefore is not applicable.

C/ 115 SC 115.3.4

D 1.0 Comment Report

C/ 115	SC 1	15.3.4	P 52	L 24	# 252
Hayashi, Ta	akehiro		HAT Lab., Inc.		
Comment T	ype	Е	Comment Status D		Clause 115 modification

Add explanations about the prefix "LOCPHD" and "REMPHD" as described in page 82.

#### SuggestedRemedy

add the folloing descriptions,

Each PHY has to deal with transmit and receive PHDs simultaneously. The prefix LOCPHD refers to the fields of the PHD to be included in the next Transmit Block transmitted to the link partner from the local PHY. LOCPHD fields assigned by the state diagrams shall be sampled at the start of a Transmit Block by the PHD Builder to create the PHD included in that current Transmit Block.

The prefix REMPHD refers to the fields of the most recent PHD received, decoded and validated from the link partner (from the remote PHY). The new values of REMPHD fields shall be available to the state diagrams and registers immediately after reception, decoding, and validation of the entire PHD and before the reception of the Transmit Block that includes that PHD is completed.

### Proposed Response Response Status W

#### PROPOSED REJECT.

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

C/ 115	SC 115.9	P 52	L 27	# 130
Wienckows	ski, Natalie	General Motors		
Comment 7	Гуре Т	Comment Status D		OAM - Dependability

The current OAM exchanges STA information. This does not provide information on the PHY or channel state. Either replace this with the Clause 149 OAM or add Features of the BASE-T1 OAM to add PHY and channel status information.

Per slide 14 of

https://www.ieee802.org/3/OMEGA/public/mar\_2020/cpardo\_OMEGA\_01\_0320\_Objectives. pdf one desired used of Multi Gig Optical Automotive Ethernet is redundant links with one copper and one optical. To do this, the information provided in the BASE-T1 OAM is needed.

SuggestedRemedy

See wienckowski\_3cz\_01\_0321.pdf.

Proposed Response Response Status W

PROPOSED REJECT.

MultiGBASE-T1 OAM approach is different of PHD + OAM approach of BASE-H and BASE-AU.

The OAM channel specified in C/115.9, which was adopted to be reused in OMEGA baseline, is a channel that only provides a mechanism to reliably exchange messages between station management entity (STA) peers attached to link partners. The information of this channel is transported

within the Physical Header Header (PHD). PHD is side information block embedded inside a Transmit Block used to exchange control and

monitoring information as well as optional capabilities (e.g. EEE, OAM). PHD is transmitted with additional error correction capability by using

a three-repetition code interleaved along several RS-FEC codewords. Additionally it also include a CRC for error detection capability. Three

specific state diagrams are used to validate the bidirectional PHD reliable operation, which is necessary before establishing the bidirectional link

between the media independent interfaces of both link partners.

Relevant information transported by the PHD concerning to the PHY status (both partners):

PHD.RX.HDRSTATUS: Indicates whether the local PHY is able to receive the PHD from its link partner with reliability. The value of this field

is determined by the local PHD reception monitor state diagram. The local PHY uses this received PHD field to determine the value of the variable

rem\_rcvr\_hdr\_lock. Only when both link partners send PHD.RX.HDRSTATUS = 1, PHD communication is bidirectional and reliable.

Local PHD reception status,

remote PHD reception status,

and PHD local status (bidirectional reliable communication) are reported through 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	C/ 115	Page 22 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 115.9	05/03/2021 22:38:48

SORT ORDER: Clause, Subclause, page, line

D 1.0 Comment Report

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<sup>A</sup>-12.

Min resolution is  $2^{-(8-3)} = 0.0312 \log 2$  units, equivalent to  $10^{*}\log 10(2)^{*}0.0312 = -0.1 dB$ 

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.

C/ 115	SC 115.9.1	P 52	L 47	# 253
Hayashi, T	akehiro	HAT Lab., Inc.		
Comment TXO_F	51	<i>Comment Status</i> <b>D</b> e but not a bit itself. Should foll	ow the con	Clause 115 modificatior sistant expression.
Suggested bit TX0		00.15 (TXO_REQ)		
Proposed I PROP modific	OSED REJECT.	<i>Response Status</i> <b>W</b> We would need a maintenance	e request o	f Clause 115 to do this
C/ 115	SC 115.9.1	P 52	L <b>50</b>	# 254
Hayashi, T	akehiro	HAT Lab., Inc.		
Comment TXO_[	51	<i>Comment Status</i> <b>D</b> me but not a bit itself. Should f	ollow the c	Clause 115 modification onsistant expression.
Suggested bit TX0		.500.11:0 (TXO_DATA0)		
Proposed I PROP modific	, OSED REJECT.	<i>Response Status</i> <b>W</b> We would need a maintenance	e request o	f Clause 115 to do this
C/ 115	SC 115.9.1	P 52	L 51	# 255
Hayashi, T	akehiro	HAT Lab., Inc.		
Comment TXO_F	51	Comment Status <b>D</b> e but not a bit itself. Should foll	ow the con	Clause 115 modification sistant expression.
Suggested	Remedy			

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

Response Status W

Proposed Response

C/ 115 SC 115.9.1

C/ 115 SC 1	15.9.1	P 52	L 53	# 257	C/ 115	SC	115.9.1	P 53	L <b>2</b>	# 259
Hayashi, Takehiro		HAT Lab., Inc.			Hayashi, 1	Takehir	о	HAT Lab., Inc.		
Comment Type	E	Comment Status D		shall statements	Comment	Туре	Е	Comment Status D		Clause 115 modification
"does" looks ar should be used		xpression. Also, if these sent	ences are	e requirements, "shall"	TXO_I	MSGT	is a bit na	ne but not a bit itself. Should f	ollow the c	onsistant expression.
					Suggested	IRemed	dy			
SuggestedRemedy does ® shall ex					bit TX	O_MSC	GT ® bit 3.	500.12 (TXO_MSGT)		
Proposed Respons		Response Status W			Proposed	Respor	nse	Response Status W		
		e would need a maintenance	request c	f Clause 115 to do this	PROP		REJECT.	We would need a maintenanc	e request o	of Clause 115 to do this
		0.55		"	C/ 115	SC	115.9.1	P 53	L <b>3</b>	# 260
C/ 115 SC 1	15.9.1	P <b>52</b>	L 53	# 256	Hayashi, 1	Takehir	0	HAT Lab., Inc.		
Hayashi, Takehiro		HAT Lab., Inc.			Comment	Туре	Е	Comment Status D		Clause 115 modification
51	_	Comment Status D		Clause 115 modification	TXO_I	DATA0	is a bit na	me but not a bit itself. Should	follow the	consistant expression.
The sentence s		eparated by , .			Suggested	Remed	dy			
SuggestedRemedy					bit TX	O_DAT	A0 ® bit 3	.500.11:0 (TXO_DATA0)		
add "," betweer					Proposed	Respor	nse	Response Status W		
Proposed Respons PROPOSED R modification		Response Status <b>W</b> e would need a maintenance	request c	f Clause 115 to do this	PROP		REJECT.	We would need a maintenanc	e request o	of Clause 115 to do this
C/ 115 SC 1	45.0.4	P 53	L1	# 258	C/ 115	SC	115.9.1	P 53	L <b>7</b>	# 261
	15.9.1		<i>L</i> 1	# 258	Hayashi, 1	Takehir	0	HAT Lab., Inc.		
Hayashi, Takehiro	E	HAT Lab., Inc.		Clause 115 modification	Comment	Туре	Е	Comment Status D		Clause 115 modification
<b>)</b>	-	ut not a bit itself. Should follo	w the cor		If thes	e sente	ences are	requirements, "shall" should be	e used.	
-					Suggested	Remed	dy			
SuggestedRemedy bit TXO_REQ @					does r	not ® sl	nall not			
_					Proposed	Respor	nse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Respons	-	Response Status <b>W</b> e would need a maintenance	roquest	f Clause 115 to do this	PROP modifi		REJECT.	We would need a maintenanc	e request o	of Clause 115 to do this

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IEEE 802.cz Multi-Gig Aut IEEE P802.3cz D1.0 Multi-G	Gig Automotive Optica	al Ethernet	PHY 1st Task	Force review comments	I	D 1.0 Comment Report
C/ 115 SC 115.9.1 P 53 L 15	# 262	C/ 115	SC 115.9.3	P 54	L 40	# 265
Hayashi, Takehiro HAT Lab., Inc.		Hayashi, T	Takehiro	HAT Lab., Inc.		
Comment Type E Comment Status D Cla	ause 115 modification	Comment	Туре Е	Comment Status D		Clause 115 modification
If these sentences are requirements, "shall" should be used.		RXO_	VAL is a bit name	e but not a bit itself. Should follo	ow the con	sistant expression.
SuggestedRemedy		Suggestea	Remedy			
always maintain ® shall maintain		bit RX	O_VAL ® bit 3.50	09.15 (RXO_VAL)		
Proposed Response Response Status W		Proposed	Response	Response Status W		
PROPOSED REJECT. We would need a maintenance request of Clau modification	se 115 to do this	PROP modifie		We would need a maintenance	e request o	f Clause 115 to do this
C/ 115 SC 115.9.1 P 53 L 20	# 263	C/ 115	SC 115.9.3	P <b>54</b>	L <b>41</b>	# 266
Hayashi, Takehiro HAT Lab., Inc.		Hayashi, T	Takehiro	HAT Lab., Inc.		
Comment Type         E         Comment Status         D         Change           Is there any technical meaning for "outstanding"?         Change         Change	ause 115 modification	<i>Comment</i> Clarify	<i>Type</i> <b>E</b> local or remote	Comment Status D		Clause 115 modification
SuggestedRemedy		Suggestea	Remedy			
If no technical meaning, deleat "outstanding"		"local"	?			
Proposed Response Response Status W		Proposed	Response	Response Status W		
PROPOSED REJECT. We would need a maintenance request of Clau modification	se 115 to do this	PROP modifie		We would need a maintenance	e request o	f Clause 115 to do this
C/ 115 SC 115.9.3 P 54 L 37	# 264	C/ 115	SC 115.9.3	P <b>54</b>	L <b>48</b>	# 267
Hayashi, Takehiro HAT Lab., Inc.		Hayashi, T	Takehiro	HAT Lab., Inc.		
Comment Type E Comment Status D Cla	ause 115 modification	Comment	Туре Е	Comment Status D		Clause 115 modification
If these sentences are requirements, "shall" should be used.		RXO_	VAL is a bit name	e but not a bit itself. Should follo	ow the con	sistant expression.
SuggestedRemedy		Suggestea	lRemedy			
does not ® shall not		bit RX	O_VAL ® bit 3.50	09.15 (RXO_VAL)		
Proposed Response Response Status W		Proposed	Response	Response Status W		
PROPOSED REJECT. We would need a maintenance request of Clau modification	se 115 to do this	PROP modifie		We would need a maintenance	e request o	f Clause 115 to do this

C/ 115 SC 115.9.3

IEEE 802.cz Multi-Gi	g Aut IEEE P802.3c	z D1.0 M	ulti-Gig Automotive Optic	al Ethernet	PHY 1st Ta	isk Force review comments	6	D 1.0 Comment Report
C/ 115 SC 115.9.3	P 54	L 51	# 268	C/ 115	SC 115.9.	3 P 55	L 24	# 271
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, <sup>-</sup>	Takehiro	HAT Lab., Inc.		
Comment Type E	Comment Status D		Clause 115 modification	Comment	Туре Е	Comment Status D		Clause 115 modification
	, and RXO_DATA0 are bit na	mes but no	ot bits themselvs. Should	"follow	v" sounds amb	iguous.		
follow the consistant exp	pression.			Suggested	dRemedy			
SuggestedRemedy				Chang	ge "are defined	as follows"		
bit RXO_VAL ® bit 3.50 bit RXO MSGT ® bit 3.5	( _ /			Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
_	509.11:0 (RXO_DATA0)					CT. We would need a maintenanc	e request o	of Clause 115 to do this
Proposed Response	Response Status W			modifi	cation			
	Ne would need a maintenanc	e request c	f Clause 115 to do this	C/ 115	SC 115.9.3	3 <i>P</i> 55	L 51	# 272
modification				Hayashi, <sup>-</sup>	Takehiro	HAT Lab., Inc.		-
C/ 115 SC 115.9.3	P 55	L 11	# 269	Comment	Туре Е	Comment Status D		Clause 115 modification
Hayashi, Takehiro	HAT Lab., Inc.			RXO_	MSGT is a bit	name but not a bit itself. Should f	ollow the c	consistant expression.
Comment Type E	Comment Status D		Clause 115 modification	Suggested	dRemedy			
If these sentences are re	equirements, "shall" should be	used.		bit RX	O_MSGT ® bi	t 3.509.12 (RXO_MSGT)		
SuggestedRemedy				Proposed	Response	Response Status W		
always maintain ® shall	maintain					CT. We would need a maintenanc	e request o	of Clause 115 to do this
Proposed Response	Response Status W			modifi	cation			
	Ne would need a maintenanc	e request c	f Clause 115 to do this	C/ 115	SC 115.9.3	3 <i>P</i> 56	L <b>2</b>	# 273
modification				Hayashi, <sup>-</sup>	Takehiro	HAT Lab., Inc.		
C/ 115 SC 115.9.3	P 55	L 15	# 270	Comment	Туре Е	Comment Status D		Clause 115 modification
Hayashi, Takehiro	HAT Lab., Inc.			RXO_	DATA0 is a bi	t name but not a bit itself. Should	follow the	consistant expression.
Comment Type E	Comment Status D		Clause 115 modification	Suggested	dRemedy			
If these sentences are re	equirements, "shall" should be	e used.		bit RX	C_DATA0 ® b	oit 3.509.11:0 (RXO_DATA0)		
SuggestedRemedy				Proposed	Response	Response Status W		
always maintain ® shall	maintain					CT. We would need a maintenanc	e request o	of Clause 115 to do this
Proposed Response	Response Status W			modifi	cation			
PROPOSED REJECT. N modification	We would need a maintenanc	e request c	f Clause 115 to do this					

C/ 115 SC 115.9.3 Page 26 of 60 05/03/2021 22:38:48

C/ 115 SC 115.9.3	P 56	L <b>3</b>	# 274	C/ 115	SC 115.9.3	P 56	L 33	# 277
Hayashi, Takehiro	HAT Lab., Inc	).		Hayashi, T	akehiro	HAT Lab., In	с.	
Comment Type E Com	ment Status D		Clause 115 modification	Comment 7	<sup>-</sup> уре Е	Comment Status D		Clause 115 modification
RXO_DATA1, RXO_DATA8 are consistant expression.	e bit name but not bit	themselves. S	Should follow the	TXO_N	ISGT is a bit na	me but not a bit itself. Shoul	d follow the co	onsistant expression.
SuggestedRemedy				Suggested	-			
bit RXO DATA1 ® bit 3.510.15	:0 (RXO DATA1)				_	.500.12 (TXO_MSGT)		
bit RXO_DATA8 ® bit 3.517.15				Proposed F	•	Response Status W		
Proposed Response Respons	onse Status W Ild need a maintenar	nce request of	Clause 115 to do this	PROP modific		We would need a maintena	nce request o	of Clause 115 to do this
modification				C/ 115	SC 115.9.3	P <b>56</b>	L 38	# 278
7 115 SC 115.9.3	P 56	L7	# 275	Hayashi, T	akehiro	HAT Lab., In	с.	
layashi, Takehiro	HAT Lab., Inc	).		Comment 7	<sup>-</sup> уре Е	Comment Status D		Clause 115 modificatior
				"the TX	O DATA0" is n	ot field but bit		
Comment Type E Com	ment Status D		Clause 115 modification					
Comment Type E Com RXO_VAL is a bit name but no		ollow the consi		Suggested	-			
RXO_VAL is a bit name but not		ollow the consi		Suggested	_ Remedy	t 3.500.11:0 (TXO_DATA0)		
RXO_VAL is a bit name but not	t a bit itself. Should fo	bllow the consi		Suggestedi TXO_D Proposed F	_ Remedy ATA0 field ® bi Response	t 3.500.11:0 (TXO_DATA0) Response Status W		
RXO_VAL is a bit name but no SuggestedRemedy bit RXO_VAL ® bit 3.509.15 (R Proposed Response Respo	t a bit itself. Should fo XO_VAL) onse Status W		stant expression.	Suggestedi TXO_D Proposed F PROPO	– Remedy ATA0 field ® bi Response DSED REJECT.	t 3.500.11:0 (TXO_DATA0)	nce request o	of Clause 115 to do this
RXO_VAL is a bit name but not SuggestedRemedy bit RXO_VAL ® bit 3.509.15 (R Proposed Response Response PROPOSED REJECT. We would	t a bit itself. Should fo XO_VAL) onse Status W		stant expression.	Suggested TXO_D Proposed F PROPO modific	Remedy PATA0 field ® bi Response DSED REJECT. ation	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena	•	
RXO_VAL is a bit name but not oggestedRemedy bit RXO_VAL ® bit 3.509.15 (R roposed Response Response Response PROPOSED REJECT. We won modification	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar	nce request of	stant expression. Clause 115 to do this	Suggestedi TXO_D Proposed F PROP( modific C/ 115	Remedy ATA0 field ® bi Response DSED REJECT ation SC <b>115.9.3</b>	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> . We would need a maintena <i>P</i> <b>56</b>	L 39	of Clause 115 to do this # [279
RXO_VAL is a bit name but not uggestedRemedy bit RXO_VAL ® bit 3.509.15 (R roposed Response Response PROPOSED REJECT. We wou modification	t a bit itself. Should fo XO_VAL) onse Status W Ild need a maintenar	L 28	stant expression.	Suggestedi TXO_E Proposed F PROPO modific C/ 115 Hayashi, T	Remedy NATAO field ® bi Response DSED REJECT ation SC <b>115.9.3</b> akehiro	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In	L 39	# 279
RXO_VAL is a bit name but not         SuggestedRemedy         bit RXO_VAL ® bit 3.509.15 (R         Proposed Response         PROPOSED REJECT. We work         modification         C/ 115       SC 115.9.3         Hayashi, Takehiro	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar P 56 HAT Lab., Inc	L 28	stant expression. Clause 115 to do this # 276	Suggestedi TXO_D Proposed F PROPO modific C/ 115 Hayashi, T Comment 1	Remedy PATA0 field ® bi Response DSED REJECT ation SC <b>115.9.3</b> akehiro Type <b>E</b>	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In <i>Comment Status</i> <b>D</b>	<i>L</i> <b>39</b> с.	# 279 Clause 115 modification
RXO_VAL is a bit name but not uggestedRemedy bit RXO_VAL ® bit 3.509.15 (R roposed Response Response PROPOSED REJECT. We wou modification 7 <b>115</b> SC <b>115.9.3</b> dayashi, Takehiro comment Type <b>E</b> Com	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar P 56 HAT Lab., Inc ment Status D	L 28	stant expression. Clause 115 to do this # 276 Clause 115 modification	Suggestedi TXO_D Proposed F PROP( modific C/ 115 Hayashi, T Comment T TXO_D	Remedy PATA0 field ® bi Response DSED REJECT. ation SC <b>115.9.3</b> akehiro Type <b>E</b> PATA1 and TXO	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In	<i>L</i> <b>39</b> с.	# 279 Clause 115 modification
RXO_VAL is a bit name but not         uggestedRemedy         bit RXO_VAL ® bit 3.509.15 (R         roposed Response       Response         PROPOSED REJECT. We would modification         / 115       SC 115.9.3         layashi, Takehiro         omment Type       E       Com         TXO_MERT is a bit name but r	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar P 56 HAT Lab., Inc ment Status D	L 28	stant expression. Clause 115 to do this # 276 Clause 115 modification	Suggestedi TXO_E Proposed F PROPO Modific C/ 115 Hayashi, T Comment T TXO_E Suggestedi	Remedy ATA0 field ® bi Response DSED REJECT ation SC <b>115.9.3</b> akehiro Type <b>E</b> ATA1 and TXO Remedy	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In <i>Comment Status</i> <b>D</b> _DATA8 is bit names. Shou	<i>L</i> <b>39</b> с.	# 279 Clause 115 modification
RXO_VAL is a bit name but not uggestedRemedy bit RXO_VAL ® bit 3.509.15 (R roposed Response Response PROPOSED REJECT. We would modification 7 115 SC 115.9.3 ayashi, Takehiro comment Type E Com TXO_MERT is a bit name but r uggestedRemedy	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar <i>P</i> 56 HAT Lab., Inc <i>ment Status</i> D tot a bit itself. Should	L 28	stant expression. Clause 115 to do this # 276 Clause 115 modification	Suggestedi TXO_E Proposed F PROPO C/ 115 Hayashi, T Comment T TXO_E Suggestedi TXO_E	Remedy PATA0 field ® bi Response DSED REJECT. ation SC <b>115.9.3</b> akehiro Type <b>E</b> PATA1 and TXO Remedy PATA1 ® bit 3.50	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In <i>Comment Status</i> <b>D</b>	<i>L</i> <b>39</b> с.	# 279 Clause 115 modification
RXO_VAL is a bit name but not uggestedRemedy bit RXO_VAL ® bit 3.509.15 (R roposed Response Response PROPOSED REJECT. We wou modification 115 SC 115.9.3 ayashi, Takehiro comment Type E Com TXO_MERT is a bit name but r uggestedRemedy bit TXO_MERT ® bit 3.500.13 (	t a bit itself. Should fo XO_VAL) onse Status W uld need a maintenar <i>P</i> 56 HAT Lab., Inc <i>ment Status</i> D tot a bit itself. Should	L 28	stant expression. Clause 115 to do this # 276 Clause 115 modification	Suggestedi TXO_E Proposed F PROPO C/ 115 Hayashi, T Comment T TXO_E Suggestedi TXO_E	Remedy ATA0 field ® bi Response DSED REJECT ation SC <b>115.9.3</b> akehiro Type <b>E</b> ATA1 and TXO Remedy ATA1 ® bit 3.50 ATA8 ® bit 3.50	t 3.500.11:0 (TXO_DATA0) <i>Response Status</i> <b>W</b> We would need a maintena <i>P</i> 56 HAT Lab., In <i>Comment Status</i> <b>D</b> _DATA8 is bit names. Shou	<i>L</i> <b>39</b> с.	# 279 Clause 115 modificatio

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IEEE 802.cz Multi-Gig Aut IEEE P802.3cz D1.0 Multi-Gig Automotive Optic	cal Ethernet PHY 1st Task Force review comments D 1.0 Comment Report
C/     115     SC     115.9.3     P 56     L 43     # 280       Hayashi, Takehiro     HAT Lab., Inc.	C/     115     SC     115.9.4.2     P 58     L 9     # 283       Hayashi, Takehiro     HAT Lab., Inc.
Comment Type         E         Comment Status         D         Clause 115 modification           TXO_OHYT is a bit name but not a bit itself. Should follow the consistant expression.	Comment Type E Comment Status X Clause 115 modification TXO_PHYT
SuggestedRemedy bit TXO_PHYT ® bit 3.500.14 (TXO_PHYT)	SuggestedRemedy see #281
Proposed Response       Response Status       W         PROPOSED REJECT. We would need a maintenance request of Clause 115 to do this modification	<ul> <li>Proposed Response Response Status W</li> <li>PROPOSED REJECT. We would need a maintenance request of Clause 115 to do this modification</li> </ul>
C/ 115 SC 115.9.3 P 56 L 48 # 281	C/ 115 SC 115.9.4.2 P 58 L 14 # 284
Hayashi, Takehiro HAT Lab., Inc.	Hayashi, Takehiro HAT Lab., Inc.
Comment TypeEComment StatusDClause 115 modificationTXO_REQ is a bit name but not a bit itself. Should follow the consistant expression.	Comment Type E Comment Status X Clause 115 modification TXO_DATA0
SuggestedRemedy bit TXO_REQ ® bit 3.500.15 (TXO_REQ)	SuggestedRemedy see #281
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED REJECT. We would need a maintenance request of Clause 115 to do this modification	PROPOSED REJECT. We would need a maintenance request of Clause 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 # 286
Hayashi, Takehiro HAT Lab., Inc.	Hayashi, Takehiro HAT Lab., Inc.
Comment Type E Comment Status X Clause 115 modification TXO_MERT	Comment Type E Comment Status X Clause 115 modification TXO_REQ
SuggestedRemedy see #281	SuggestedRemedy see #281
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED REJECT. We would need a maintenance request of Clause 115 to do this modification	PROPOSED REJECT. We would need a maintenance request of Clause 115 to do this modification

C/ 115 SC 115.9.4.2 Page 28 of 60 05/03/2021 22:38:48

C/ 115 SC 115.9	.4.2	P 58	L16	# 285	C/ 115	SC 115.9.4	.3 P 58	L <b>40</b>	# 289
Hayashi, Takehiro		HAT Lab., Inc.			Hayashi, <sup>-</sup>	Takehiro	HAT Lab.	, Inc.	
Comment Type E TXO_MSGT	Comm	ent Status X		Clause 115 modification	Comment RXO_	<i>Type</i> <b>E</b> MSGT	Comment Status X		Clause 115 modification
SuggestedRemedy see #281					Suggested see #	,			
Proposed Response	Respon	se Status 🛛 🛛 🛛 🖤			Proposed	Response	Response Status W		
PROPOSED REJE modification	CT. We would	d need a maintenand	e request o	f Clause 115 to do this		POSED REJEC	T. We would need a mainte	enance request c	of Clause 115 to do this
C/ 115 SC 115.9	.4.2	P 58	L <b>22</b>	# 287	C/ 115	SC 115.9.4	.3 P 58	L <b>45</b>	# 290
Hayashi, Takehiro		HAT Lab., Inc.			Hayashi, <sup>-</sup>	Takehiro	HAT Lab.	, Inc.	
Comment Type E TXO_PHYT	Comm	ent Status X		Clause 115 modification	Comment RXO_	<i>Type</i> <b>E</b> DATA0	Comment Status X		Clause 115 modification
SuggestedRemedy see #281					Suggested see #	•			
Proposed Response	Respon	se Status W			Proposed	Response	Response Status W		
PROPOSED REJE modification	CT. We would	d need a maintenand	e request o	f Clause 115 to do this		POSED REJEC	T. We would need a mainte	enance request c	of Clause 115 to do this
C/ 115 SC 115.9	.4.2	P 58	L 23	# 288	C/ 115	SC 115.9.4	.3 <i>P</i> 58	L 46	# 292
Hayashi, Takehiro		HAT Lab., Inc.			Hayashi, <sup>-</sup>	Takehiro	HAT Lab.	, Inc.	
Comment Type E TXO_MERT	Comm	ent Status X		Clause 115 modification	Comment RXO_	<i>Type</i> <b>E</b> MSGT	Comment Status X		Clause 115 modification
SuggestedRemedy see #281					Suggested see #	-			
Proposed Response	Respon	se Status W			Proposed	Response	Response Status W		
	· · ·			f Clause 115 to do this			T. We would need a mainte	nonco request a	f Clause 115 to do this

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D 1.0 Comment Report

optical fiber

OAM

C/ 115	SC 115.9.4.3	P 58	L 46	# 291	C/ 115 S	C 115.14.3	P 60	L <b>3</b>	# 129
Hayashi, Ta	akehiro	HAT Lab., Inc.			Wienckowski, I	Vatalie	General Motor	s	
Comment T	Гуре Е	Comment Status X		Clause 115 modification	Comment Type	Е	Comment Status X		OAN
RXO_V	/AL				Sub-clause	115.14 has	to be included in the draft sin	ce sub-clauses	to it are included.
Suggested	Remedy				SuggestedRem	edy			
see #28	81						mplementation conformance s		
Proposed R	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉					Sublayer (PCS), Physical Medi Indent (PMD) sublayer, types		
		We would need a maintenance	e request c	f Clause 115 to do this			3" before 115.15.3.		
modific	ation				Proposed Resp	onse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
C/ 115	SC 115.9.4.3	P 58	L 53	# 293			OAM definition will be include	ed in Clause 30	0 if comment #11 is
Hayashi, Ta	akehiro	HAT Lab., Inc.			approved b	y TF. There	fore is not applicable.		
Comment T	Гуре Е	Comment Status X		Clause 115 modification	C/ 125 S	C 125.1.3	P 61	L <b>21</b>	# 26
RXO_V	/AL				Pérez-Aranda,	Rubén	KDPOF		
Suggested	Remedy				Comment Type	т	Comment Status D		optical fibe
see #28	81				Too many o	details (RS s	size, GF, …) for an overview ir	n a generic clau	ise.
Proposed R	Response	Response Status W			SuggestedRem	edy			
PROPC modific		We would need a maintenance	e request c	f Clause 115 to do this	Sublayer (F	PCS), Physio	ents Physical Layer devices us cal Medium Attachment (PMA	) sublayer, and	Physical Medium
C/ 115	SC 115.9.4.3	P 59	L 46	# 294		· · ·	ayer, for transmitting 2.5 Gb/s otive applications. 2.5GBASE-		•
Hayashi, Ta	akehiro	HAT Lab., Inc.					d-Solomon frames that are ma		
Comment T	Гуре Е	Comment Status X		Clause 115 modification			l fiber. <u>sepsep</u> 5GBASE-AU repres oding Sublayer (PCS), Physic		
RXO_M	<b>/</b> SGT				sublayer, a	nd Physical	Medium Dependent (PMD) su	ıblayer, for tran	smitting 5 Gb/s
Suggested	Remedy						ode optical fiber tailored for au encapsulated into Reed-Solom		
see #28	81						ssion on optical fiber.		
Proposed R	Response	Response Status W			Proposed Resp	onse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
		We would need a maintenance	e request c	f Clauss 115 to do this	PROPOSE		IN PRINCIPLE.		

C/ 125 SC 125.1.3

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D 1.0 Comment Report

C/ 125 SC 125.1.3	P 61	L 23	# 154	C/ 125 SC 1	25.1.3	P 61	L 31	# 326
Grow, Robert	RMG Consul	ting, KDPOF		Abbott, John		Corning		
Comment Type E	Comment Status X		optical fiber	Comment Type	E	Comment Status D		PAM
	proved for consistency with re			change PAM2	to NRZ			
	s "an optical fiber" implies a s Jous (i.e.,, PHY or the fiber).	ingle fiber, not tw	o fibers. What is	SuggestedRemedy	,			
SuggestedRemedy				change PAM2	to NRZ			
	b/s Ethernet over optical fiber	· in automotive a	oplications."	Proposed Respons	e	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Response	Response Status W	·		PROPOSED A	CCEPT.			
, ,	T IN PRINCIPLE. See #251 a	nd #150		C/ 125 SC 1	25.1.3	P 62	L33	# 27
C/ 125 SC 125.1.3	P 61	L 25	# 325	Pérez-Aranda, Rut		KDPOF		
		L <b>25</b>	# 325	Comment Type	т	Comment Status D		BASE-U
Abbott, John Comment Type <b>E</b>	Corning Comment Status D		PAM	For consistenc	y, same r	omenclature should be use	ed in Fig 44-1, 10	)5-1, 125-1. Also in
change PAM2 to NRZ			FAM	lines 34, 35				
SuggestedRemedy				SuggestedRemedy				
change PAM2 to NRZ				Replace 2.5GE BASE-U PMA.	BASE-AU	PCS and 5GBASE-AU PCS	S with BASE-U F	PCS. Replace PMA with
Proposed Response	Response Status W			Proposed Respons	е	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
PROPOSED ACCEP	Г.			PROPOSED A	CCEPT.			
C/ 125 SC 125.1.3	P 61	L <b>29</b>	# 155	C/ 125 SC 1	25.1.4	P 63	L	# 28
Grow, Robert	RMG Consul	ting, KDPOF		Pérez-Aranda, Rub	pén	KDPOF		
Comment Type E	Comment Status X		optical fiber	Comment Type	т	Comment Status D		optical fiber
	proved for consistency with re			Lack of consist	ency with	table 105-1.		
	s "an optical fiber" implies a s lous (i.e.,, PHY or the fiber).	ingle fiber, not tw	o fibers. What is	SuggestedRemedy	,			
SuggestedRemedy						PHY using 64B/65B and Re		
	s Ethernet over optical fiber ir	h automotive app	lications "			ode optical fiber tailored for "5 Gb/s PHY using 64B/65		
Proposed Response	Response Status W			modulation over		ode optical fiber tailored for		
1 1	T IN PRINCIPLE. See #251 a	nd #150		300)."				
				Proposed Respons		Response Status W		
					5 Gb/s Pl	N PRINCIPLE. HY using 64B/65B and Ree ode optical fiber for use in a		

300)." Definition according to #150

C/ 125 SC 125.1.4

SORT ORDER: Clause, Subclause, page, line

D 1.0 Comment Report

5GBASE-AU is no 55 64B/65B encod stedRemedy emove M of rows 2. SBASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro rent Type T	ot mandatory 5GBASE ling. Also in line 29 2.5GBASE-T1 and 5GE tively. <i>Response Status</i> PT. 4 <i>P(</i> HAT <i>Comment Status</i> 5GBASE-T1 is wrong <i>Response Status</i> PT.	s D ot mandatory 2.5GE E-T1. The only thing BASE-T1, the the c s W 64 <i>L</i> 29 T Lab., Inc. s D	
or implementation of 5GBASE-AU is no 555 64B/65B encod stedRemedy emove M of rows 2. 5BASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro eent Type T 5BASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	of 2.5GBASE-AU is no ot mandatory 5GBASE ling. Also in line 29 2.5GBASE-T1 and 5GE tively. <i>Response Status</i> PT. 4 <i>Pt</i> HAT <i>Comment Status</i> 5GBASE-T1 is wrong <i>Response Status</i> PT.	tot mandatory 2.5GE E-T1. The only thing BASE-T1, the the c s W 64 <i>L</i> 29 T Lab., Inc. s D 3 s W	BASE-T1. For implementation in common is the re-use of columns 2.5GBASE-AU and # 298
5GBASE-AU is no 55 64B/65B encod stedRemedy emove M of rows 2. 5BASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro rent Type T 5BASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	ot mandatory 5GBASE ling. Also in line 29 2.5GBASE-T1 and 5GE tively. <i>Response Status</i> PT. 4 <i>P(</i> HAT <i>Comment Status</i> 5GBASE-T1 is wrong <i>Response Status</i> PT.	E-T1. The only thing BASE-T1, the the c s W 64 L29 T Lab., Inc. s D 9 s W	y in common is the re-use of columns 2.5GBASE-AU and <b>2</b> 98
55 64B/65B encod stedRemedy emove M of rows 2. SBASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro ent Type T SBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	ling. Also in line 29 2.5GBASE-T1 and 5GE tively. Response Status PT. 4 Pt HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	BASE-T1, the the c s W 64 <i>L</i> 29 T Lab., Inc. s D 3	eolumns 2.5GBASE-AU and 9 # 298
stedRemedy emove M of rows 2. BBASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro ent Type T BBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	2.5GBASE-T1 and 5GE tively. Response Status PT. <b>4</b> P( HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	s W 64 <i>L</i> 29 T Lab., Inc. s D 3	9 # <u>298</u>
emove M of rows 2. GBASE-AU respect sed Response ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro tent Type T GBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	tively. Response Status PT. 4 Pt HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	s W 64 <i>L</i> 29 T Lab., Inc. s D 3	9 # <u>298</u>
ROPOSED ACCEP 5 SC 125.1.4 shi, Takehiro eent Type T GBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	PT. PT. HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	64 <i>L</i> 29 T Lab., Inc. s D 3	
5 SC 125.1.4 shi, Takehiro eent Type T GBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	4 Po HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	T Lab., Inc. s D g	
shi, Takehiro ent Type <b>T</b> BBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	T Lab., Inc. s D g	
shi, Takehiro ent Type <b>T</b> BBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	HAT Comment Status 5GBASE-T1 is wrong Response Status PT.	T Lab., Inc. s D g	
ent Type T BBASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	Comment Status 5GBASE-T1 is wrong Response Status PT.	s D s W	
BASE-AU "M" for stedRemedy elete "M" sed Response ROPOSED ACCEP	5GBASE-T1 is wrong Response Status PT.	s W	
stedRemedy elete "M" sed Response ROPOSED ACCEP	Response Status	s W	7 # 30
elete "M" sed Response ROPOSED ACCEP	, РТ.		7 # 30
sed Response ROPOSED ACCEP	, РТ.		7 # 30
ROPOSED ACCEP	, РТ.		<b>7</b> # 30
5 SC 125.2.4		64 / 47	# 30
	•		
-Aranda, Rubén	KDF		
ent Type <b>T</b>	Comment Status		Miss t
	EGA is the first project	t defining optical PI	HYs for 2.5 and 5 Gb/s rates
stedRemedy		0 1	
omplete the amend			use 105 to include PMD
sed Response	Response Status	s W	
ROPOSED ACCEP	PT.		
u u	Complete the amend ublayers. Make a re osed Response	Complete the amendment of clause 125 c ublayers. Make a review of other missing	Complete the amendment of clause 125 consistently with cla ublayers. Make a review of other missing parts. osed Response Response Status W

C/ 131 SC 131.1.2	P 66	L 25	# 31	C/ 131	SC 131.1.3	P 67	L 8	# 33
Pérez-Aranda, Rubén	KDPOF			Pérez-Arano	la, Rubén	KDPOF		
Comment Type <b>T</b>	Comment Status D		BASE-U	Comment Ty	/ре Т	Comment Status D		PAN
For consistency, same Also in lines 26, 27	nomenclature should be use	d in Fig 44-1, 10	95-1, 125-1 and 131-1.		an be underst adopted.	ood as PAM with X levels will b	e used. NRZ i	s other option. No
SuggestedRemedy				SuggestedR	emedy			
Replace 50GBASE-AU	PCS with BASE-U PCS. Rep	place PMA with	BASE-U PMA.	Because	e no baseline i	s aopted, replace PAMX with "T	BD modulatio	n".
<b>o</b> 1	stponed until 50G baseline fo	r PCS and PMA	is adopted.	Proposed R	esponse SED ACCEP1	Response Status W		
Proposed Response	Response Status W			. <u></u>				
PROPOSED ACCEPT See #5	IN PRINCIPLE.			C/ 131	SC 131.1.3	P 67	L 31	# 299
				Hayashi, Ta	kehiro	HAT Lab., Inc.		
2/131 SC 131.1.3	P 67	L7	# 32	Comment Ty		Comment Status D		optical fibe
Pérez-Aranda, Rubén	KDPOF			The cab	ling won't be a	single fiber structure.		
Comment Type <b>T</b> It is multimode fiber	Comment Status D		optical fiber	SuggestedR a optica	,	of multimode optical fiber		
SuggestedRemedy				Proposed R	esponse	Response Status W		
Replace "optical fiber"	with "multimode optical fiber"			,	,	IN PRINCIPLE.		
Proposed Response	Response Status W			See #15	0			
	IN PRINCIPLE. Use definitio automotive applications"	n in #150:		C/ 131	SC 131.1.3	P 67	L 31	# 34
C/ 131 SC 131.1.3	P 67	L7	# 156	Pérez-Arano	,			
		-	<del>#</del> 150	Comment Ty	,	Comment Status D		optical fibe
Grow, Robert	RMG Consult Comment Status X	ING, KDPOF	antion l fiber		,	ther comments and their propos	sed changes.	
Definitions. The words	proved for consistency with re "an optical fiber" implies a si				with: "50 Gb/s	s PHY using TBD encoding with r automotive applications (see 0		tion over multimode
Ŭ	ous (i.e.,, PHY or the fiber).			Proposed R	esponse	Response Status W		
SuggestedRemedy				PROPO	SED ACCEPT	IN PRINCIPLE. Use definition	in #150: "optio	cal fiber for use in
"for transmitting 50 Gb/	's Ethernet over optical fiber i	n automotive ap	plications.		ive applicatior		•	

PROPOSED ACCEPT IN PRINCIPLE. See #251 and #150

C/ 131 SC 131.1.3

# D 1.0 Comment Report

C/ 131 SC 131.	1.3	P 67	L 31	# 157	C/ 131	SC 131.2.3	P 67	L 50	# 36
Grow, Robert		RMG Consul	ting, KDPOF		Pérez-Ara	nda, Rubén	KDPOF		
Comment Type E	Comme	ent Status 🗙		optical fiber	Comment	Туре Е	Comment Status D		I
Language could b Definitions. The v tailored is also am	ords "an optical	l fiber" implies a s				31-1, FEC subla	t and does not require to be a yer is not included.	amended. In the F	Fig 44-1, 105-1, 125-1
SuggestedRemedy					Remo				
"50 Gb/s PHY usin Clause 300)."	ng TBD encodin	g over optical fibe	r in automotive a	pplications (see	Proposed	Response	Response Status W		
Proposed Response	Respons	se Status 🛛 🛛 🛛 🛛 🛛 🖉			PROP	OSED ACCEP	Γ.		
PROPOSED ACC	EPT IN PRINCI	PLE. See #251 a	nd #150		Cl 30,3	SC 30,3	P 21	L <b>4</b>	# 126
C/ 131 SC 131.	2.2	P 67	L <b>45</b>	# 174	Hyakutake	e, Yasuhiro	Adamant Na	amiki Precision Je	ewel Co., Ltd.
Grow, Robert		RMG Consul	ting KDPOF		Comment	Туре Е	Comment Status D		
Comment Type E	Comme	ent Status D		EZ	l recor	nmend to expla	in the abbreviation of "DTEs"	that the first see	n in this amendment.
50GBASE-H PHY					Suggested	lRemedy			
SuggestedRemedy					Add a	sentence "Data	Terminal Equipments" expla	ain for "DTEs".	
50GBASE-AU					Proposed	Response	Response Status W		
Proposed Response		se Status W				OSED REJECT	- d in 802.3:2018,Clause 1.5 A	bbreviations, pag	ge 109
PROPOSED ACC	EPI.				C/ 300	SC 300	P71	L1	# 125
C/ 131 SC 131.	2.2	P 67	L <b>46</b>	# 35	Pérez-Ara	nda, Rubén	KDPOF		
Pérez-Aranda, Rubén		KDPOF			Comment	Type E	Comment Status D		l
Comment Type E Many details com		ent Status <b>D</b> and PMD. Will ne	ed to bePMD up	<i>Details</i> dated with C/300		al: figures shou g the draft.	d be placed close to the clau	ises where they a	re referred to facilitate
accordingly.					Suggested	IRemedy			
SuggestedRemedy						-			
Replace text with:	"The 50GBASE	-AU PCS is speci	fied in Clause 30	0." Easier to maintain.	Proposed	Response	Response Status 🛛 🛛 🛛 🖉		
Proposed Response PROPOSED ACC	,	se Status W			•	OSED ACCEP	,		

C/ 300 SC 300

#### 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

Cl 300	SC 300	P 71	L <b>9</b>	# 37		C/ 300	SC 300.1
Pérez-Aranda	a, Rubén	KDPOF				Swanson, S	Steve
Comment Typ	be E	Comment Status D			ΕZ	Comment T	<sup>-</sup> уре <b>т</b>
PMD is a	sublayer. The	ey are several types (plural)					ale: "to suppor
SuggestedRe	emedy						now what the
		al Coding Sublayer (PCS), Phy			.)	Suggested	<i>≺emedy</i> ": Kojiri-safe,⊸
		Medium Dependent (PMD) su E-AU, 25GBASE-AU, and 500		.5GBASE-AU,			-
Proposed Re		Response Status W				Proposed F	SED ACCEF
PROPOS	SED ACCEPT	1					JSED ACCEP
C/ 300	SC 300.1	P71	L23	# 158		C/ 300	SC 300.1
Grow, Robert		RMG Consulti		# 136		Grow, Robe	
Comment Typ		Comment Status X	ng, NDF OF	onti	cal fiber	Comment T	
Language Definition	e could be imp ns. The words	oroved for consistency with red "an optical fiber" implies a sir ous (i.e.,, PHY or the fiber).		s to P802.3cz		Gramm Suggestedl Replace	
SuggestedRe	-					Proposed F	
"The 2.50	GBASE-AU, 5	GBASE-AU, 10GBASE-AU, 2 support operation in automotiv		nd 50GBASE-AL	J	•	DSED ACCEP
Proposed Re	•	Response Status W				C/ 300	SC 300.1.1
PROPOS	SED ACCEPT	IN PRINCIPLE. See #251 and	d #150			Swanson, S	Steve
CI 300	SC 300.1	P71	L26	# 176		Comment 7	
Grow, Robert		RMG Consulti					ale: there are
Comment Typ		Comment Status D	<u>,</u>	opti	cal fiber	Suggested	-
		the optical fiber medium is wi is a requirement unless/until				Proposed F	
SuggestedRe	emedy					PROPO	DSED ACCEF
		ften the statement: "Connecti receptacle and mated plug."	on of PMD to th	e optical fiber me	edium	C/ 300	SC 300.1.1
Proposed Re	sponse	Response Status W				Grow, Robe	
PROPOS	SED ACCEPT					<i>Comment T</i> Oops, f	<i>Type</i> <b>E</b> Tive PHY type:
						Suggestedl Change	Re <i>medy</i> e "four' to "five
						Proposed F	Response
						•	DSED ACCEF

C/ 300	SC 300.1	P7	1	L 28	# 349
Swanson, S	Steve	Corni	ing Inc		
	ale: "to support sp	Comment Status pecific requirements nector requirements	for installa		<i>optical fibe</i> le" is adequate; we
Suggestedl Delete	-	t protection, vibratic	on robustne	ss, tensile stre	ength, etc."
Proposed F PROP(	Response DSED ACCEPT.	Response Status	w		
C/ 300	SC 300.1	P7	1	L 32	# 177
Grow, Robert		RMG Consulting, KDPO			
Comment 7 Gramm		Comment Status	D		E
Suggestedl Replac	•	Also on line 37.			
Proposed F PROPC	Response DSED ACCEPT.	Response Status	W		
C/ 300	SC 300.1.1	P7	1	L <b>42</b>	# 350
Swanson, S	Steve	Corni	ing Inc		
Comment 7 Rationa	51	Comment Status stinct PHY types.	D		Ε
Suggestedl Replac	•	PHY types" with '	'…five disti	nct PHY types	S"
Proposed F PROP(	Response DSED ACCEPT.	Response Status	w		
C/ 300	SC 300.1.1	P7	1	L <b>42</b>	# 178
Grow, Rob	ert	RMG	Consulting	, KDPOF	
Comment 7 Oops, f	<i>Type</i> <b>E</b> Tive PHY types ar	Comment Status re listed.	D		Ε
Suggestedl Change	R <i>emedy</i> e "four' to "five".				
	Response	Response Status			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 300 Page 35 of 60 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 300.1.1 05/03/2021 22:38:49 SORT ORDER: Clause, Subclause, page, line

D 1.0 Comment Report

C/ 300 SC 300.1.1	P 71	L <b>43</b>	# 41	C/ 300 SC 300.1.2	P72	L 20	# 180	
Pérez-Aranda, Rubén	KDPOF			Grow, Robert	RMG Consultir	ng, KDPOF		
Comment Type E They a re five PHYs	Comment Status D		EZ	Comment Type E Grammar, in 802.3, "are requirements.	Comment Status <b>D</b> e" is used to state facts, not ir	n place of a sha	shall statements Il to indicate normative	
SuggestedRemedy Replace four with five.				SuggestedRemedy "System operation from	the perspective of signals at	the MDI and m	anagement objects	
Proposed Response PROPOSED ACCEPT.	Response Status W			shall be identical" Proposed Response	Response Status W	e perspective of signals at the MDI and management obje		
C/ 300 SC 300.1.1	P 71	L <b>44</b>	# 42	PROPOSED ACCEPT.				
Pérez-Aranda, Rubén	KDPOF			C/ 300 SC 300.1.3	P 72	L 23	# 301	
Comment Type <b>T</b> Consider the use of BAS SuggestedRemedy	Comment Status <b>D</b> SE-AU i/o MultiGBASE-AU.		BASE-U	Hayashi, Takehiro <i>Comment Type</i> <b>E</b> Chage "2.5GBASE-AU	HAT Lab., Inc. <i>Comment Status</i> <b>D</b> " to "MultiGBASE-AU"		BASE-AU	
Per comment. If agreed Proposed Response PROPOSED ACCEPT.	, make general change. <i>Response Status</i> <b>W</b>			-	" to "MultiGBASE-AU"			
C/ 300 SC 300.1.1	P71	L 46	# 300	Proposed Response PROPOSED ACCEPT I The term BASE-AU will	Response Status W IN PRINCIPLE. Il be used to refer to all PHYs.			
Hayashi, Takehiro	HAT Lab., Inc			-				
Comment Type E For immediate usage of sentence.	Comment Status <b>D</b> "MultiGBASE-AU" after this	, add "hereafter"	at the end of the	Cl 300 SC 300.1.3 Hayashi, Takehiro Comment Type E	P <b>72</b> HAT Lab., Inc. Comment Status <b>X</b>	L 26	# 302 BASE-AU	
S <i>uggestedRemedy</i> Add "hereafter" after "50	)GBASE-AU PHYs".			Chage "2.5GBASE-AU	" to "MultiGBASE-AU"			
Proposed Response PROPOSED ACCEPT.	Response Status W			0	" to "MultiGBASE-AU"			
C/ 300 SC 300.1.2	P 72	L 18	# 179	Proposed Response PROPOSED ACCEPT I The term BASE-AU will	Response Status W IN PRINCIPLE. be used to refer to all PHYs.			
Grow, Robert	RMG Consult	ing, KDPOF						
Comment Type E Grammar	Comment Status D		EZ					
SuggestedRemedy "The 50GBASE-AU PH`	Y type.							
Proposed Response	Response Status W							

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

C/ 300 SC 300.1.3

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# D 1.0 Comment Report

C/ 300 SC 300.1.4	P 73	L <b>30</b>	# 303	C/ 300 SC 300.1.4	P 73	L <b>48</b>	# 305	
Hayashi, Takehiro	HAT Lab., Inc.			Hayashi, Takehiro	HAT Lab., Inc			
Comment Type <b>E</b> Chage "2.5GBASE-AU	Comment Status X		BASE-AU	Comment Type <b>T</b> position of PCS TX/RX	Comment Status <b>D</b> and PMD TX/RX in the right	side is wrong.		EZ
SuggestedRemedy Chage "2.5GBASE-AU	" to "MultiGBASE-AU"			<i>SuggestedRemedy</i> PMD TX/RX shall be le	ft side of PMA and PCS TX/R	X shall be right s	side of PMA.	
Proposed Response PROPOSED ACCEPT The term BASE-AU wil	Response Status W IN PRINCIPLE. Il be used to refer to all PHYs.			Proposed Response PROPOSED ACCEPT	Response Status W			
C/ 300 SC 300.1.4	P73	L <b>34</b>	# 304	C/ 300 SC 300.1.4	P73	L 48	# 306	
Hayashi, Takehiro	HAT Lab., Inc.		" 004	Hayashi, Takehiro	HAT Lab., Inc			
Comment Type E The sentence line 34 -	Comment Status D			Comment Type <b>T</b> PCS TX/RX looks like	Comment Status D detachable mechanical interfa	ace like MDI.		
SuggestedRemedy	S7 is very confusing.			SuggestedRemedy				
Each optical fiber trnas end of the optical fiber	mits light with specified wave I connects to a MultiGBASE-AU to the link partner's MultiGBA <i>Response Status</i> <b>W</b>	compliant PN	ID transmitter (TX) and		Response Status W am not indicating a particular indicate the BASE-AU PHY.			
TFTD. Text proposal.								
C/ 300 SC 300.1.4	P73	L <b>42</b>	# 351	Cl 300 SC 300.1.4 Pérez-Aranda, Rubén	<i>Р</i> <b>73</b> КDPOF	L <b>48</b>	# 43	
Swanson, Steve Comment Type E	Corning Inc Comment Status D		EZ	Comment Type <b>T</b> PMD is connected to F Also in line 49	Comment Status <b>D</b> CS. Terms PMD and PCS ex	changed in the F	PHY of the right sid	<i>EZ</i> de.
SuggestedRemedy Delete "…concrete…"				SuggestedRemedy Per comment.				
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W			

C/ 300 SC 300.1.4 Page 37 of 60 05/03/2021 22:38:49

#### 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/ 300	SC 300.1.4	P 74	L <b>7</b>	# 184
Grow, Rob	pert	RMG Consulting	g, KDPOF	
Comment	Туре Е	Comment Status D		Re-st

Comment Status D

Re-structure text

This introduction to PCS functionality didn't help me much with all of the data grouping names nor how they relate to each other. I personally prefer a top down description, and this introduction mixes top with bottom too much. Better separation of xMII data from PHD information in the description might help, as well as describing the TX path before any of the RX path. Suggested alternate text for lines 6 through 22 also introduces the concept of a payload data path and PHD path because that is helpful to understand what the PCS is doing before getting into too much detail of how it is doing it and it helps to mentally grasp the relationship of the data groupings.

### 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 one or more Transmit Blocks, and xMII frame boundaries have no correlation to Transmit Block boundaries.

On the transmit path, the PCS repeatedly encodes 64-bits (8 octets) of the xMII data 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 bits of RS-FEC.

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. On the receive path, the MultiGBASE-AU PCS error checks received RS-FEC codewords. and separates the payload from the control information. The received payload is decoded to create the xMII receive data stream. A series of received PHD blocks are concatenated to reconstruct the PHD (see 300.2.3.3).

PHD information keeps the receiver clock aligned with the transmitter, and provides link monitoring, Reed-Solomon Forward Error Correction (RS-FEC) encoding (see 300.2.3.5), additive scrambling (see 300.2.3.6), and PAM2 mapping (see 300.2.3.7).

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Combine with the re-structuring ideas in comments #52 and #66

C/ 300	SC	300.1.4	P74	L8	# 44
Pérez-Ara	nda, Ri	ubén	KDPOF		
Comment	Туре	т	Comment Status D		Modulation
PAM t	erm is I	not necess	ary for description.		

### SugaestedRemedv

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

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 300 SC	300.1.4	P74	L 8	# 182
Grow, Robert		RMG C	onsulting, KDPOF	
Comment Type	Е	Comment Status	)	EZ

Name errors. Clause 46 and Clause 106 do not use underscore.

### SuggestedRemedy

Change TX D and TS C to TXD and TXC if the current text survives comment.

	Response OSED ACCEPT.	Response Status	w			
C/ 300	SC 300.1.4	P74	4	L 9	# 308	
Hayashi, T	Takehiro	HAT	_ab., Ind	c.		
Comment	Туре Е	Comment Status	D			
Is ther	e any special rea	sons using capitals f	or the te	erm "Transmit B	locks"?	
Suggested If not,	<i>IRemedy</i> use lower casea.					
Proposed PROP	•	<i>Response Status</i> It is a proper name.	W			
C/ 300	SC 300.1.4	P74	4	L 9	# 328	
Abbott, Jo	hn	Corni	ng			
	<i>Type</i> <b>E</b> e PAM2 to NRZ	Comment Status	D		P	AM
Suggested chang	-	or explain they are th	e same			
	Response OSED ACCEPT.	Response Status	w			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 300 Page 38 of 60 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 300.1.4 05/03/2021 22:38:49 SORT ORDER: Clause, Subclause, page, line

C/ 300	SC 300.1.4	P 74	L13	# 45	C/ 300	SC 300.1.4	P 74	L <b>21</b>	# 329
Pérez-Ara	nda, Rubén	KDPOF			Abbott, Joł	in	Corning		
Comment	Туре Т	Comment Status D			Comment	уре Е	Comment Status D		PAM
		PHD is not intended for cloc AM protocol, PHY control a			•	PAM2 to NRZ			
Suggested	IRemedy			0	Suggested	-			
00	per comment.				-		or explain they are the same		
Proposed I	Response	Response Status W			Proposed F	•	Response Status W		
•	, OSED ACCEPT.				PROP	DSED ACCEPT.			
21 200	SC 200 4 4	P74	L15	# 400	C/ 300	SC 300.1.4	P 74	L 27	# 47
C/ 300	SC 300.1.4			# 183	Pérez-Arar	ida, Rubén	KDPOF		-
Grow, Rob		RMG Consult	ing, KDPOF		Comment	уре Т	Comment Status D		OAM
Comment	••	Comment Status D		EZ			should BASE-U OAM and sp		
		the Transmit Block", it is re	dundant with the	next sentence.		ation do referen ssary. Also in lir	ces C/115 to make easier m	aintenance and a	avoiding repeating text
Suggested	-					,			
Per co	mment,unless tex	t is replaced per other com	nents.		Suggested	,		line and a	
Proposed I	Response	Response Status W					BASE-U. Change text accord	lingiy.	
PROP	OSED ACCEPT.				Proposed F	,	Response Status W		
	00 000 4 4	P74	L 21	# 46	PROP	OSED ACCEPT.			
~/ 200		F /4		# 40	C/ 300	SC 300.1.4	P <b>74</b>	L 27	# 405
	SC 300.1.4								# 185
Pérez-Ara	nda, Rubén	KDPOF		Modulation	Grow, Rob	ert	RMG Consult		# [185
Pérez-Arai Comment	nda, Rubén <i>Type</i> <b>T</b>	KDPOF Comment Status D	n (unnecessary s	Modulation					
Pérez-Ara Comment PAM2	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne	KDPOF			Grow, Rob Comment T The tex	<i>ype</i> <b>E</b> t seems to char	RMG Consult Comment Status D ge style here, dropping use	iing, KDPOF of MultiGBASE-A	BASE-AU
Pérez-Ara Comment PAM2 in PMI	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0	KDPOF Comment Status D			Grow, Rob Comment T The tex and sta	<i>Type</i> <b>E</b> It seems to char Inting to use the	RMG Consult Comment Status D ge style here, dropping use ist of 4 PHY types (on line 3	iing, KDPOF of MultiGBASE-A 3 " <list> PMA" in</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE-
Pérez-Arai Comment PAM2 in PMI Suggested	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por			Grow, Rob Comment T The te and sta AU PN	<i>ype</i> <b>E</b> t seems to char rting to use the A). "XGMII, 250	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 GMII or 50GMII) will become	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE- nan the list of two
Pérez-Aran Comment PAM2 in PMI Suggested Remov	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0 <i>IRemedy</i> ve PAM2 per comi	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por ment.			Grow, Rob Comment T The te: and sta AU PM which i 50GMI	<i>ype</i> <b>E</b> t seems to char rting to use the A). "XGMII, 250 s already a prob differences but	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 SMII or 50GMII) will become em. I question if we will only if we are really committed to	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th y need one new o a single new cla</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE- nan the list of two clause because of the suse, then we should
Pérez-Arai Comment PAM2 in PMI Suggested Remov Proposed I	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0 <i>IRemedy</i> ve PAM2 per comi	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por			Grow, Rob Comment T The tex and sta AU PM which i 50GMI be con	Type E tt seems to char ring to use the A). "XGMII, 250 s already a prob differences but sistent in includio	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 GMII or 50GMII) will become em. I question if we will only	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th y need one new o a single new cla</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE- nan the list of two clause because of the suse, then we should
Pérez-Arai Comment PAM2 in PMI Suggested Remov Proposed I	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0 <i>IRemedy</i> ve PAM2 per comi <i>Response</i>	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por ment.			Grow, Rob Comment T The tex and sta AU PM which i 50GMI be con	Type <b>E</b> tt seems to char rting to use the A). "XGMII, 250 s already a prob differences but sistent in includii cations of how 50	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 SMII or 50GMII) will become em. I question if we will only if we are really committed to ng 50GBASE-AU as much as	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th y need one new o a single new cla</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE- nan the list of two clause because of the suse, then we should
Comment PAM2 in PMI Suggested Remov	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0 <i>IRemedy</i> ve PAM2 per comi <i>Response</i>	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por ment.			Grow, Rob Comment 7 The tex and sta AU PN which i 50GMI be con specific Suggested The be a base 50GBA more ti	Type <b>E</b> tt seems to char ring to use the A). "XGMII, 250 s already a prob differences but sistent in includii cations of how 50 Remedy st thing to save ine for 50GBAS SE-AU would be an just a differe	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 GMII or 50GMII) will become em. I question if we will only if we are really committed to bg 50GBASE-AU as much as 0GBASE-AU will work) editorial effort might be to leas E-AU, but it appears unlikely the motiviation to have mor nt rate (e.g., different xMII wi	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th r need one new cla s need one new cla s possible (with T ave this style prof that that will hap e than one claus idth, perhaps mu</list>	BASE-AU AU (first paragraph) Istead of MuitiGBASE- han the list of two clause because of the luse, then we should TBD for any blem until the TF picks open for D1.1 . IMO, e because it will be ltiple lanes, etc.) To
Pérez-Arai Comment PAM2 in PMI Suggested Remov Proposed I	nda, Rubén <i>Type</i> <b>T</b> mapping is not ne D will map bits = 0 <i>IRemedy</i> ve PAM2 per comi <i>Response</i>	KDPOF Comment Status D ccessary for the specificatio and bits = 1 into optical por ment.			Grow, Rob Comment 7 The tex and sta AU PM which i 50GMI be con specific Suggested The be a base 50GBA more ti not def	Type <b>E</b> tt seems to char ring to use the A). "XGMII, 250 s already a prob differences but sistent in includii cations of how 50 Remedy st thing to save ine for 50GBAS SE-AU would be an just a differe er this problem,	RMG Consult Comment Status <b>D</b> ge style here, dropping use ist of 4 PHY types (on line 3 GMII or 50GMII) will become em. I question if we will only if we are really committed to bg 50GBASE-AU as much as 0GBASE-AU will work) editorial effort might be to leas E-AU, but it appears unlikely the motiviation to have mor	ting, KDPOF of MultiGBASE-A 3 " <list> PMA" in more tiresome th r need one new ca a single new cla s possible (with T ave this style prof that that will hap e than one claus idth, perhaps mu E-AU instead of f</list>	BASE-AI AU (first paragraph) Istead of MuitiGBASE- han the list of two clause because of the luse, then we should TBD for any blem until the TF picks open for D1.1 . IMO, e because it will be ltiple lanes, etc.) To

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Use BASE-AU instead of PHY types lists.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ <b>300</b>	Page 39 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 300.1.4	05/03/2021 22:38:49
SORT ORDER: Clause, Subclause, page, line		

D 1.0 Comment Report

CI 300	SC 300.1.4	P74	L <b>33</b>	# 186		C/ 300	SC 300.1.4	P 75	L	# 307
Grow, Robe	rt	RMG Consult	ing, KDPOF			Hayashi, T	akehiro	HAT Lab., Inc		
<i>Comment T</i> y Gramma		Comment Status D			ΕZ	Comment Make t	51	Comment Status <b>D</b> PHY sublayers more clear.		
SuggestedR Start ser	<i>emedy</i> ntence with "A".					Suggested	Remedy			
Proposed Re PROPO	esponse SED ACCEPT.	Response Status W				Proposed I TFTD	Response	Response Status W		
C/ 300	SC 300.1.4	P 74	L 38	# 48		C/ 300	SC 300.1.4	P 75	L 11	# 49
Pérez-Aranc	da, Rubén	KDPOF				Pérez-Ara	nda, Rubén	KDPOF		<u> </u>
Comment Ty	vpe E	Comment Status D			ΕZ	Comment	Туре Т	Comment Status D		Loopback and test mode
•	,	lescriptions. The PMA function		i ennañ heranig		0 =		t in the baseline.		
SuggestedR To chec appropri	k all the text to ate.	replace describing wording w Response Status W	vith specifying wo	rding, where		Proposed I	opback lines as	place holder. Add entry to TO <i>Response Status</i> <b>W</b>	DO list to de	efine them.
SuggestedR To chec appropri Proposed Re	<i>emedy</i> k all the text to ate.	Response Status W	/ith specifying wo	rding, where		Add loo Proposed I	opback lines as Response	Response Status W	DO list to de	efine them. # <u>50</u>
SuggestedR To check appropri Proposed Re PROPO	Pemedy k all the text to ate. esponse	Response Status W	vith specifying wo			Add log Proposed I PROP CI 300	opback lines as Response OSED ACCEPT	Response Status <b>W</b>		
SuggestedR To check appropri Proposed Re PROPO Cl <b>300</b>	Remedy k all the text to ate. esponse SED ACCEPT. SC <b>300.1.4</b>	Response Status W	L 38	rding, where # 187		Add log Proposed I PROP CI 300	opback lines as Response OSED ACCEPT SC <b>300.1.4</b> nda, Rubén	Response Status W		
SuggestedR To check appropri Proposed Re PROPO C/ <b>300</b> Grow, Robel Comment Ty	eemedy k all the text to ate. esponse SED ACCEPT. SC 300.1.4 rt vpe E	Response Status W P74 RMG Consulti Comment Status D	L 38		EZ	Add log Proposed I PROP CI 300 Pérez-Arai Comment	opback lines as Response OSED ACCEPT SC <b>300.1.4</b> nda, Rubén Type <b>T</b> PMD_RXDETE(	Response Status W	L 32	# 50
SuggestedR To check appropri Proposed Re PROPO Cl <b>300</b> Grow, Robel Comment Ty Bad hot SuggestedR	Permedy k all the text to ate. SED ACCEPT. SC 300.1.4 rt /pe E link references	Response Status W P 74 RMG Consulti Comment Status D	L 38		EZ	Add log Proposed H PROPO CI 300 Pérez-Aran Comment I miss every o Suggested	opback lines as Response OSED ACCEPT SC 300.1.4 nda, Rubén Type T PMD_RXDETEC potical PHY and Remedy MD_RXDETECT	Response Status W P75 KDPOF Comment Status D CT.indication in the PMD servi independent of LPI specificat	L 32	# 50

C/ 300 SC 300.1.4

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C/ 300	SC 300.2.1	P 76	L14	# 189	C/ 300	SC 300.2.1	P 76	L 15	# 51
Grow, Robe	ert	RMG Consulti	ing, KDPOF		Pérez-Arar	ida, Rubén	KDPOF		
Comment T	Туре Т	Comment Status D	Pos	sition of shall statements	Comment 7	Гуре Т	Comment Status D		Terminolog
for each lead to in an in SuggestedF Review	h shall to produc duplicate shalls. htroduction (overv <i>Remedy</i> v that pointed to s	umber of shalls that are only e one PICS item, and this se The shall should typically by view) like these single senten subclauses have an equilivan nese pointer sentences.	eparation from th e placed with the nce "shall" with re	e specificatons can e technical details, not eference.	term P bits us meanir encode becaus specifie	DB is defined ir ed to encode th ig is different of ed from 8 GMII e both codes a cation.	voided in the baseline, how in 1.4.388 as physical data e GMII data stream. (See f the one used in C/300. P transfers (64 bits as well!) re 64B/65B.	block (PDB): The m IEEE Std 802.3, Cla DBs in C/115 are 65 Using PDB in C/30	hinimum data unit of 65 ause 115.). EThe 5 bit length and are 00 will create confusion,
Proposed R		Response Status W			Suggested	-			
,	OSED ACCEPT.	,					e other terms (see C/55, C may use PCS 65B blocks,		
C/ 300	SC 300.2.1	P 76	L14	# 188	Proposed F	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
Grow, Robe		RMG Consulti	ing, KDPOF			DSED ACCEPT s of 802.3	IN PRINCIPLE. Replace	PDB by "65-bit bloc	ck" as used in other
Comment T Typo	Туре Е	Comment Status D		EZ	C/ 300	SC 300.2.1	P 76	L 17	# 53
					Pérez-Arar	ida, Rubén	KDPOF		
	> XGMII (unless v	we decide to use xMII instead	d of a list).		Comment 7 PHD te	51	Comment Status <b>D</b> no change of definition.		Terminolog
Proposed R PROPC	Response OSED ACCEPT.	Response Status W			Suggested	Remedy	al header data (PHD) acc	ordinaly.	
	00 000 0 4	P 76	L15	# 190	Proposed F	Response	Response Status W	0,7	
Cl <b>300</b>	SC 300.2.1				-1	,	IN PRINCIPLE. Amend i	n 1 / 380 definition	a mafamaman ta Clausa
		RMG Consulti	ing, KDPOF		PROP	JSED AUGEP I	IN FRINGIFLE. AIIICIU I	11 1.4.309 00111111011	a reference to Clause
Grow, Robe	ert	RMG Consulti Comment Status D	ing, KDPOF	EZ	PROP 300.	JSED ACCEPT	IN FRINCIPLE. Amend I	11 1.4.369 demilion	a reference to Clause
Grow, Robe Comment T	ert	Comment Status D	ing, KDPOF	EZ		SC 300.2.1	P76	L 17	# <u>52</u>
Grow, Robe Comment T	ert <i>Type</i> <b>E</b> words often is be	Comment Status D	ing, KDPOF	EZ	300.	SC 300.2.1	-		
Grow, Robe Comment T Fewer	ert Type E words often is be Remedy	Comment Status D	ing, KDPOF	EZ	300.	SC <b>300.2.1</b> nda, Rubén	P76		
Grow, Robe Comment T Fewer v SuggestedF Delete	ert <i>Type</i> <b>E</b> words often is be <i>Remedy</i> "by".	Comment Status D	ing, KDPOF	EZ	300. C/ <b>300</b> Pérez-Arar Comment	SC <b>300.2.1</b> Ida, Rubén Type <b>T</b>	<i>Р<b>76</b></i> КDPOF	L17	# 52
Grow, Robe Comment T Fewer v SuggestedF Delete Proposed F	ert <i>Type</i> <b>E</b> words often is be <i>Remedy</i> "by".	Comment Status D etter.	ing, KDPOF	EZ	300. C/ <b>300</b> Pérez-Arar Comment	SC <b>300.2.1</b> Ida, Rubén <i>Type</i> <b>T</b> In of the coded F	P <b>76</b> KDPOF Comment Status D	L17	# 52
Grow, Robe Comment T Fewer v SuggestedF Delete Proposed F	ert Type E words often is be Remedy "by". Response	Comment Status D etter.	ing, KDPOF	EZ	300. C/ <b>300</b> Pérez-Arar <i>Comment</i> "portion <i>Suggested</i> Introdu use the	SC <b>300.2.1</b> Inda, Rubén Type <b>T</b> In of the coded F Remedy Ice a paragraph e introduced ten	P <b>76</b> KDPOF Comment Status D	L 17 ack of clarity. ow is encoded and s ented paragraph to o	# <u>52</u> <i>Terminolog</i> plit in portions. Then
Grow, Robe Comment T Fewer v SuggestedF Delete Proposed F	ert Type E words often is be Remedy "by". Response	Comment Status D etter.	ing, KDPOF	ΕΖ	300. C/ <b>300</b> Pérez-Arar <i>Comment</i> "portion <i>Suggested</i> Introdu use the	SC 300.2.1 Inda, Rubén Type <b>T</b> In of the coded F Remedy Ice a paragraph e introduced ten ed sub-blocks a	P <b>76</b> KDPOF <i>Comment Status</i> <b>D</b> PHD called PHD block". La before the PHD is and ho minology in the the comm	L 17 ack of clarity. ow is encoded and s ented paragraph to o	# <u>52</u> <i>Terminolog</i> plit in portions. Then

C/ 300 SC 300.2.1

D 1.0 Comment Report

C/ 300 SC 300.2.1	P 76	L17	# 191	C/ 300	SC 300.2.1	P76	L23	# 193	
Grow, Robert	RMG Consult		"	Grow, Rober		RMG Consulti		" [100	
Comment Type E	Comment Status D			Comment Ty		Comment Status D			ΕZ
The words "appended to, but only usually atta	by" should be improved. App ached at the end. This is a re t be ambiguous but in other c	curring problem i	in the draft. In some	Awkward things) is SuggestedRe	langage: "an : "information emedy	nd they conform". One incorrection bits. The 220 parity bits for	rm an RS-FEC	Codeword (CW)."	
SuggestedRemedy						lock, and 220 parity bits form a	an RS-FEC Cod	leword (CVV)."	
matters. For example	not full word) and replace if po , this case, with suitable addic e of 80 PDBs is followed by a	onal clarification r	night appropriately	Proposed Re PROPOS	sponse SED ACCEPT	Response Status W			
Proposed Response	Response Status W			C/ 300	SC 300.2.1	P 76	L 25	# 194	
PROPOSED ACCEPT	'			Grow, Rober	t	RMG Consulti	ng, KDPOF		
SuggestedRemedy	P 76 RMG Consult Comment Status D ? Is it referring to the PDB ar correctly: "The resulting 5220 Response Status W	nd PHD block bits		SuggestedRe Include ti Proposed Re PROPOS	ngraph mixes f emedy ne firest sente sponse SED ACCEPT SC <b>300.2.1</b> a, Rubén	nce in the previous paragraph Response Status W	L 25	# [ <u>55</u> Modul	EZ
	P 76 KDPOF Comment Status D cated, and needs to be deduct	L 21 ted from the parit	# <u>54</u> y length.	PAM2 m SuggestedRe "A conca scramble	apping step is emedy tenation of 36 r specified in	consecutive CW shall be scra 300.2.3.6. The Transmit Block	ambled by the b t is the sequenc	inary additive	allon
	formation bits shall be encode as specified in 300.2.3.5." W			Proposed Re		Response Status W			
Proposed Response	Response Status W								

C/ 300 SC 300.2.1

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C/ 300 SC 300.2.1	P 76	L <b>26</b>	# 330		C/ 300	SC 300.2.1	P 76	L 32	# 196	
Abbott, John	Corning				Grow, Rob	pert	RMG Consul	lting, KDPOF		
Comment Type E	Comment Status D			PAM	Comment	Туре Е	Comment Status D			ΕZ
change PAM2 to NRZ							nave a tendency to create too			
SuggestedRemedy							ncy. Is is really necessary to ther "function" or "process" (			
change PAM2 to NRZ of	or explain they are the same						the function of process (			
Proposed Response	Response Status W				Suggested	•	Receive -> receive in next se	ntanaa Aaaarah	will about that	
PROPOSED ACCEPT.	,					,	nsistent throughout the draft.		will show that	
	P 76	L 28	# 004		Proposed I	Response	Response Status W			
C/ 300 SC 300.2.1		L 28	# 331		PROP	OSED ACCEPT				
Abbott, John	Corning Comment Status D			PAM	C/ 300	SC 300.2.1	P 76	L 34	# 332	
Comment Type E change PAM2 to NRZ (				PAM	Abbott, Jo		Corning	L <b>34</b>	# 332	
					Comment		Comment Status D			PAM
SuggestedRemedy						e PAM2 to NRZ				РАМ
5	or explain they are the same				0					
Proposed Response	Response Status W				Suggested	,				
PROPOSED ACCEPT.					0		or explain they are the same	:		
C/ 300 SC 300.2.1	P 76	L <b>29</b>	# 195		Proposed I	,	Response Status W			
Grow, Robert	RMG Consult	ing, KDPOF			PROP	OSED ACCEPT	•			
Comment Type E	Comment Status D		Re-struct	ure text	C/ 300	SC 300.2.1	P76	L <b>34</b>	# 56	
Unnecessary detail for	introduction to PCS.				Pérez-Ara	nda, Rubén	KDPOF			
SuggestedRemedy					Comment	Туре Т	Comment Status D		Modu	ulation
Delete paragraph.					PAM2	demodulation s	tep is not necessary for the s	pecification.		
Proposed Response	Response Status W				DMA r	eceive function i	is intended to implement syn	c timing recovery	equalization sym	nhole
PROPOSED ACCEPT	IN PRINCIPLE. Combine with	h result of #184					on in case of NRZ).	c, anning recovery	, equalization, sym	10013
					Suggested	Remedy				
					00					
					"The P	CS Receive fun	ction comprises the binary de	escrambling,	" or equivalent.	<u>.</u>
					"The P Proposed I		ction comprises the binary de Response Status <b>W</b>	escrambling,	" or equivalent.	t.

C/ 300 SC 300.2.1

D 1.0 Comment Report

C/ 300	SC 300.2.1	P 77	L 35	# 61	C/ 300	SC 300.2.1	P 77	L 35	# 60
Pérez-Arai	nda, Rubén	KDPOF			Pérez-Arar	nda, Rubén	KDPOF		
Comment <sup>·</sup>	Туре Т	Comment Status D		Modulation	Comment	Туре Т	Comment Status D		
NRZ m Suggested Remov	apping, PAM2 n <i>Remedy</i> ve block, and ada			n extra step in PMD of	the Tra synchr additive Adder	ansmit Block, beo onization and tra e scrambler is a is not specified a	scrambler uses a PRBS gen cause it is intended to be us ining purposes before link is self-contained block to avoid and it should be mod-2 or xo ordering, a simple box shou	ed as pre-known established.	n data for In the baseline, the e running PRBS. ccount that these figures
Proposed I	,	Response Status W					ordening, a simple box sho		lugn.
	OSED ACCEPT	IN PRINCIPLE. 0-4 PAM2 0 by bit 0			Suggested	•	lace scrambler with a single	hox as in the h	aseline
C/ 300	SC 300.2.1	P77	L 35	# 58	Proposed F		Response Status W		
	nda, Rubén	KDPOF	L 35	# 58		OSED ACCEPT.			
Comment <sup>·</sup>	Туре Т	Comment Status D		Terminology	C/ 300	SC 300.2.1	P 78	L1	# 62
Figure	300-4. PDB tern	ns to be removed.			Pérez-Arar	nda, Rubén	KDPOF		
Suggested					Comment		Comment Status D		Modulation
Per co	mment				Figure	300-5. Same co	mments to Figure 300-4, ab	out PDBs, PAM	2 and descrambler.
Proposed I PROP	Response OSED ACCEPT.	Response Status W			Suggested Per co	<i>Remedy</i> mment.			
C/ 300	SC 300.2.1	P 77	L 35	# 59	Proposed F	Response	Response Status W		
Pérez-Arai	nda, Rubén	KDPOF			PROP	OSED ACCEPT	IN PRINCIPLE. See #58 #6	1	
Comment	Туре Е	Comment Status D		Terminology	C/ 300	SC 300.2.1	P 78	L 33	# 63
PHD b	lock is used toge	ether with 20-bit PHD block.	Ambiguity can be	produced.	Pérez-Arar	nda. Rubén	KDPOF		
Suggested	Remedy				Comment	,	Comment Status D		Transmit Block sync
Genera Use Pl	al proposal: HD to indicate th	ock with 20-bit encoded PHD e chuck of binary informatior	n per Table 300-2	<u>.</u>			IA service interface defined? er or it belongs to PMA subl		,
		he PHD being interleaved ar D sub-block for the sub-bloc		each RS-FEC CW.	receive	e function level co	nization and timing recovery ombined with equalization. F		
Proposed I	Response	Response Status W			detecte				
PROP	OSED ACCEPT.				Suggested	•	<b></b>		
						ke of simplicity, r onization block.	emove PMA service interfac	e, remove trans	smit block
					Dranaad	7	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
					Proposed F	Response	Response Status W		

C/ 300 SC 300.2.1 Page 44 of 60 05/03/2021 22:38:49

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	P 79	L <b>1</b>	# 64	C/ 300	SC 300.2.	2 P 76	L <b>48</b>	# 57
Pérez-Aranda, Rubén	KDPOF			Pérez-Arai	nda, Rubén	KDPOF		
Comment Type <b>T</b>	Comment Status D			Comment	Туре Е	Comment Status D		Re-structure text
because the TRC parity f outer code, i.e. the RS.	rleaved TRC. a concatenation of 2 codes or each information bit is ti may be defined w/o interlo	ansmitted in diffe	erent codewords of the	The cla subscr charac	ause 300.2.2 ipt in the abov ters from the	ers together with /O/, /S/ etc are should not be split by the figure re labels indicates 49 the position XGMII or 25GMII transfer(s)" is i.e. what is above?	s 300-4 through on of the charact	300-6. Text like "The ter in the eight
SuggestedRemedy				Suggested	Remedy			
Add "Interleaved" per bas	eline.			Move of	definition to su	bclauses where they are used.		
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉			Proposed I	Response	Response Status W		
PROPOSED REJECT.	- 16 - 1 in the two second states	and a size of		PROP	OSED REJEC	CT.		
	ecified in the transmission	Ū.		C/ 300	SC 300.2.	2 P77	L 41	# 333
C/ 300 SC 300.2.1	P 79	L <b>29</b>	# 65	Abbott, Jol	hn	Corning		
Pérez-Aranda, Rubén	KDPOF			Comment	Туре Е	Comment Status D		PAM
Comment Type T	Comment Status D		Mux	change	e PAM2 to NF	Z in Figure 300-4 (multiple)		
	HD block ordering. The oub- block are transmitted inf			Suggested	Remedy			
SuggestedRemedy				change	e PAM2 to NF	Z		
In the bottom line indicate each rectangle split in two	es the CWs as RS-FEC C\ o, the left one wider with 6 ded sub-blocks. Then, add	5-bit blocks, and	the right one narrower,	Proposed I PROP	Response OSED ACCE	Response Status W		
	der. 🔛 Replace "PHD block			C/ 300	SC 300.2.	2. P 78	L <b>41</b>	# 334
0	<sup>z.</sup> Response Status <b>W</b>			Abbott, Jo	hn	Corning		
PROPOSED ACCEPT IN	,	decreases ambi	guity.	Comment Type E Comment Status D change PAM2 to NRZ in Figure 300-5 (multiple)			PAM	
				Suggested change	<i>Remedy</i> e PAM2 to NF	Z		
				Proposed I	Resnonse	Response Status W		

C/ 300 SC 300.2.2.

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

CI 300	SC 300.2.3	P 79	L	# 67	C/ 300	SC 3	300.2.3.2	P 80	L 25	# 335
Pérez-Arand	la, Rubén	KDPOF			Abbott, J	ohn		Corning		
Comment Ty	vpe T	Comment Status D	P	osition of shall statements	Comment	Туре	Е	Comment Status D		PAM
		ent for the transmit ordering			chang	ge PAM2	to NRZ in	Figure 300-7		
		ement is necessary to unaml ne with equations if it is appr		e the transmit block	Suggeste	dRemed	y			
SuggestedR	•		•		chan	ge PAM2	to NRZ			
Per com	-				Proposed	Respon	se	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Re	esponse	Response Status W			PRO	POSED A	ACCEPT.			
•	SED ACCEPT I	,			C/ 300	SC 3	300.2.3.3.1	P 80	L 52	# 69
As per #	189, the shall s	tatement will be placed at th	e lowest hierar	rchy level possible.	Pérez-Ara			KDPOF		
CI 300	SC 300.2.3.1	P 79	L <b>42</b>	# 68	Comment	,		Comment Status D		Cross Reference
Pérez-Arand	la, Rubén	KDPOF			Refer	ence to (	C/115 for f	ix-point. It should be defined	l in C/300, new	or by reference to
Comment Ty	vpe T	Comment Status D		EZ	C/115	5. Reduce	e to min th	e references to C/115, with	is not functiona	ally related clause.
	ng to the Figure here is lack of c	300-7 PCS transmit functior onsistency.	n, this clause s	hould be "Payload data	<i>Suggeste</i> Per c	-	<i>y</i> General t	o C/300.		
SuggestedR	emedy				Proposed	Respon	se	Response Status W		
Do it cor	nsistent, changii	ng block diagram, text or bot	h.			•	ACCEPT.	,		
Proposed Re	esponse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉				00.4		D04		# ==
PROPO	SED ACCEPT I	N PRINCIPLE. The text will	be changed to	match the Figure 300-7.	C/ 300		300.2.3.3.1 . <i>.</i>		L <b>1</b>	# 70
CI 300	SC 300.2.3.2	P 80	L <b>21</b>	# 66	Pérez-Ara	,				
Pérez-Arand		KDPOF	- 21	# 00	Comment	•••		Comment Status D	A and analifica	OAM
Comment Ty		Comment Status D		Мих				ility should be BASE-U OAI es C/115 to make easier m		
,	,	ng the TX ordering? The mu	ltinlever? the F		unne	cessary.				
		architectural point of view, b			Suggeste	dRemed	У			
transmit	process.				Per c	omment.				
SuggestedR	emedy				Proposed	Respon	se	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
		with "Interleaved TRC enco Itiplexer with "TX transmit or			PRO	POSED	ACCEPT.			
Proposed Re	esponse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉								
No inser Remove	"PHD Block or	ved" concept per #64.								

Move 300.2.3 before 300.2.1 for clarity. #(Grow Editorial).

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 46 of 60 05/03/2021 22:38:49

D 1.0 Comment Report

C/ 300 SC 300.2.3.3.	1 <i>P</i> 81	L <b>24</b>	# 309	C/ 300 SC 300.2.3.3.2 P83 L11 # 73
Hayashi, Takehiro	HAT Lab., Inc.			Pérez-Aranda, Rubén KDPOF
Comment Type E	Comment Status D		EZ	Comment Type T Comment Status D M
add the reference of "P	HD reception monitor state dia	gram"		From an architectural point of view, the step number 4 does not belong to the physical
SuggestedRemedy				header data path, it is outside. Also in line 15.
add (see 3.4.5)				SuggestedRemedy
Proposed Response PROPOSED ACCEPT.	Response Status W			Move transmit ordering outside, specified before FEC encoder. This new subclauses should include shall statements for the transmit ordering, taking into account the start of transmit block Modify Figure 300-8 accordingly.
C/ 300 SC 300.2.3.3.	1 <i>P</i> 81	L 30	# 310	Proposed Response Response Status W
	HAT Lab., Inc.	L 30	# 310	PROPOSED ACCEPT IN PRINCIPLE.
Hayashi, Takehiro	Comment Status D		EZ	See #66
Comment Type E use the ssame the refe			EZ	CI 300 SC 300.2.3.3.3 P83 L 32 # 74
	ence			Pérez-Aranda, Rubén KDPOF
SuggestedRemedy change 300.3.5 to 300.3	2 5 2			Comment Type T Comment Status D
Ū.				No extra. It is after TRC decoding.
Proposed Response	Response Status W			SuggestedRemedy
PROPOSED ACCEPT.				Replace with: "The 224 PHD bits from PHD Builder are appended with 16 cyclic
C/ 300 SC 300.2.3.3.	1 P 82	L <b>50</b>	# 71	redundancy check bits (CRC16) for error detection capability after TRC decoding."
Pérez-Aranda, Rubén	KDPOF			Proposed Response Response Status W
Comment Type <b>T</b>	Comment Status D			PROPOSED ACCEPT.
Per baseline it is not co	rrect. Also in line 51			C/ 300 SC 300.2.3.3.4 P84 L3 # 75
SuggestedRemedy				Pérez-Aranda, Rubén KDPOF
Change to: "… and valid codeword of the next re	dation of the entire PHD and be ceived transmit block."	efore the decod	ling of first RS-FEC	Comment Type <b>T</b> Comment Status <b>D</b> E
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			
PROPOSED ACCEPT.				SuggestedRemedy Remove "systematically"
C/ 300 SC 300.2.3.3.	2 P 83	L7	# 72	Proposed Response Response Status W
Pérez-Aranda, Rubén	KDPOF			PROPOSED ACCEPT.
Comment Type T	Comment Status D		EZ	
	, it is the only error detection of	apability after		
51			g.	
CRC code is not "extra"	, <b>,</b>			
CRC code is not "extra" SuggestedRemedy	,			
51	Response Status W			

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

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## D 1.0 Comment Report

C/ 300	SC 300.2.3.3.5	P 84	L11	# 76	C/ 3
Pérez-Ara	inda, Rubén	KDPOF			Pére
Comment		Comment Status D		Mu	
	an architectural poi er data path, it is out	nt of view, the step number	4 does not bel	ong to the physical	ר t
Suggested	1 7	Side.			r F
	•	utside, specified before FE	C encoder This	s new subclauses	Sugg
should	d include shall state	ments for the transmit orde			F
transn	nit block.				Prop
•		Response Status 🛛 🛛 🛛 🛛 🛛 🖉			F
PROP block.		PRINCIPLE. See #66. Intr	roduce the conc	cept of start of transmit	C/ 3
					_ `
C/ 300	SC 300.2.3.4.2	P 85	<i>L</i> 1	# 311	Pére
layashi, ⊺	Takehiro	HAT Lab., Inc	:_		Com
		Comment Status X			ŀ
omment	Туре Е				9
	<i>Type</i> <b>E</b> to understand Fig 3				
Hard t	o understand Fig 3				-
Hard t Suggested separa	o understand Fig 3 <i>Remedy</i> ate the figure into d	00-10. ata block format part and c	ontrol block forr	nat part, then add 63	- a
Hard t Suggested separa	o understand Fig 3 Remedy	00-10. ata block format part and c	ontrol block forr	nat part, then add 63	ا Sugg
Hard t Suggested separa vertica Proposed	io understand Fig 3 IRemedy ate the figure into d al dot lines to repres Response	00-10. ata block format part and cr sent bits. <i>Response Status</i> <b>W</b>			ן Sugg F
Hard t Suggested separa vertica Proposed	io understand Fig 3 IRemedy ate the figure into d al dot lines to repres Response	00-10. ata block format part and c sent bits.			s 1 2 Sugg F Prop
Hard t Suggested separa vertica Proposed TFTD.	io understand Fig 3 IRemedy ate the figure into d al dot lines to repres Response	00-10. ata block format part and cr sent bits. <i>Response Status</i> <b>W</b>			ר a Sugg F Prop
Hard t suggested separa vertica proposed TFTD.	In a constraint of the second se	00-10. ata block format part and c sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi	igure unreadeal	ble.	Sugg F Prop
Hard t suggested separa vertica proposed TFTD. 7 <b>300</b> Pérez-Ara	Anderstand Fig 3 ARemedy ate the figure into d al dot lines to repres Response . I think adding 64 v SC 300.2.3.4.9 unda, Rubén	00-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> <b>87</b>	igure unreadeal	ble.	Sugg F Prop G C/ 3
Hard t uggested separa vertica troposed TFTD.	Anderstand Fig 3 <i>Remedy</i> ate the figure into d al dot lines to represe <i>Response</i> . I think adding 64 v <i>SC</i> 300.2.3.4.9 Inda, Rubén <i>Type</i> <b>T</b>	00-10. ata block format part and co sent bits. <i>Response Status W</i> ertical lines will make the fi <i>P</i> 87 KDPOF	igure unreadeal <i>L</i> <b>24</b>	fEC decoder erro	Sugg Prop
Hard t uggested separa vertica troposed TFTD. d <b>300</b> Pérez-Ara comment The R symbo	ate the figure into d al dot lines to repres <i>Response</i> . I think adding 64 v <i>SC</i> 300.2.3.4.9 anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 KDPOF <i>Comment Status</i> <b>D</b> s 2·t 10-bit RS symbols error capability @RS-FEC error of	igure unreadeal <i>L</i> 24 or detection cap detection shall b	FEC decoder erro bability and t 10-bit RS be used to flag /E/ for	Sugg Prop
Hard t suggested separa vertica Proposed TFTD. <b>300</b> Pérez-Ara Comment The R symbo	ate the figure into d al dot lines to repres <i>Response</i> . I think adding 64 v <i>SC</i> 300.2.3.4.9 anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> <b>87</b> KDPOF <i>Comment Status</i> <b>D</b> s 2·t 10-bit RS symbols error	igure unreadeal <i>L</i> 24 or detection cap detection shall b	FEC decoder erro bability and t 10-bit RS be used to flag /E/ for	Sugg Prop CI 3 Or Pére Com
Hard t uggested separa vertica troposed TFTD. <b>300</b> Pérez-Ara comment The R symbo the aff uggested	ate the figure into d al <i>Remedy</i> ate the figure into d al dot lines to represe <i>Response</i> . I think adding 64 w <i>SC</i> <b>300.2.3.4.9</b> anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has bols error correction of fected 65-bit blocks <i>Remedy</i>	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 <i>KDPOF</i> <i>Comment Status</i> <b>D</b> s 2-t 10-bit RS symbols error capability <b>RS-FEC</b> error of This will improve the MT	igure unreadeal <i>L</i> 24 or detection cap detection shall b	FEC decoder erro bability and t 10-bit RS be used to flag /E/ for	Sugg Prop
Hard t uggested separa vertica troposed TFTD. <b>300</b> Pérez-Ara comment The R symbo the aff uggested	ate the figure into d al dot lines to represe Response I think adding 64 w SC 300.2.3.4.9 anda, Rubén Type T S-FEC decoder has fected 65-bit blocks	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 <i>KDPOF</i> <i>Comment Status</i> <b>D</b> s 2-t 10-bit RS symbols error capability <b>RS-FEC</b> error of This will improve the MT	igure unreadeal <i>L</i> 24 or detection cap detection shall b	FEC decoder erro bability and t 10-bit RS be used to flag /E/ for	Sugg Prop
Hard t suggested separa vertica proposed TFTD. <b>300</b> Pérez-Ara comment The R symbo the aff suggested Add si	An ounderstand Fig 3 <i>Remedy</i> ate the figure into d al dot lines to represe <i>Response</i> . I think adding 64 w <i>SC</i> 300.2.3.4.9 anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has blocks of the formed of the second	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 <i>KDPOF</i> <i>Comment Status</i> <b>D</b> s 2-t 10-bit RS symbols error capability <b>RS-FEC</b> error of This will improve the MT	igure unreadeal <i>L</i> 24 or detection cap detection shall b	FEC decoder erro bability and t 10-bit RS be used to flag /E/ for	Sugg Prop CI 3 Or Pére Com
Hard t Suggested separa vertica Proposed TFTD. 7 300 Pérez-Ara Comment The R symbo the aff Suggested Add si Proposed PROP	A counderstand Fig 3 <i>Remedy</i> ate the figure into d al dot lines to represe <i>Response</i> . I think adding 64 w <i>SC</i> 300.2.3.4.9 anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has blocked 65-bit blocks <i>Remedy</i> hall statement account <i>Response</i> POSED ACCEPT IN	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 KDPOF <i>Comment Status</i> <b>D</b> s 2·t 10-bit RS symbols error capability RS-FEC error of This will improve the MT rdingly. <i>Response Status</i> <b>W</b> PRINCIPLE.	igure unreadeal <i>L</i> 24 or detection cap detection shall t TFPA of the sy	<i>FEC decoder erro</i> <i>FEC decoder erro</i> pability and t 10-bit RS be used to flag /E/ for rstem.	Sugg Prop
Hard t Suggested separa vertica Proposed TFTD. 2/ <b>300</b> Pérez-Ara Comment The R symbol the aff Suggested Add si Proposed PROP The ad	A counderstand Fig 3 A counderstand Fig 3 A counderstand Fig 3 A counderstand Fig 3 A counderstand Figure into d al dot lines to represe A counderstand for the A cound	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 KDPOF <i>Comment Status</i> <b>D</b> s 2·t 10-bit RS symbols error capability RS-FEC error of This will improve the MT rdingly. <i>Response Status</i> <b>W</b>	igure unreadeal <i>L</i> 24 or detection cap detection shall t TFPA of the sy	<i>FEC decoder erro</i> <i>FEC decoder erro</i> pability and t 10-bit RS be used to flag /E/ for rstem.	Prop
Suggested separa vertica Proposed TFTD. Cl 300 Pérez-Ara Comment The R symbo the aff Suggested Add si Proposed PROP The ad	A counderstand Fig 3 <i>Remedy</i> ate the figure into d al dot lines to represe <i>Response</i> . I think adding 64 w <i>SC</i> 300.2.3.4.9 anda, Rubén <i>Type</i> <b>T</b> S-FEC decoder has blocked 65-bit blocks <i>Remedy</i> hall statement account <i>Response</i> POSED ACCEPT IN	200-10. ata block format part and co sent bits. <i>Response Status</i> <b>W</b> ertical lines will make the fi <i>P</i> 87 KDPOF <i>Comment Status</i> <b>D</b> s 2·t 10-bit RS symbols error capability RS-FEC error of This will improve the MT rdingly. <i>Response Status</i> <b>W</b> PRINCIPLE.	igure unreadeal <i>L</i> 24 or detection cap detection shall t TFPA of the sy	<i>FEC decoder erro</i> <i>FEC decoder erro</i> pability and t 10-bit RS be used to flag /E/ for rstem.	Sugg Sugg Prop CI 3 Or Pére Com

C/ 300	SC 300.2.3.4.	10 P 87	L <b>27</b>	# <u>78</u>
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Мих
the PC	CS transmit orderin	be replace with one prov ng. This sub-clause is mi chically in an upper level	ixing payload data	
Suggested	Remedy			
Per co	omment.			
Proposed	Response	Response Status W		
PROP	OSED ACCEPT I	N PRINCIPLE. See #Mu	x	
C/ 300	SC 300.2.3.5	P 87	L <b>45</b>	# 79
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Mux
Suggested	_	e different bits that comp	ose the message t	o be encoded.
Proposed		Response Status W		
, PROP	POSED ACCEPT I pecification will be	,	ubclause specifing	the PCS transmit
C/ 300	SC 300.2.3.5	P 88	L <b>24</b>	# 80
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Mux
should The R	l in a different sub S-FEC encoder cl	ormation composes the I -clause, the one of PCS ause should only specify e different bits that comp	transmit ordering. how the encoder v	
Suggested Per co	<i>Remedy</i> omment.			
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
		N PRINCIPI E This she	cification will be inc	luded in the future

PROPOSED ACCEPT IN PRINCIPLE. This specification will be included in the future subclause specifing the 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

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# 83	L	P 90	300 SC 300.2.3.7	# 81	L <b>1</b>	P 90	SC 300.2.3.6	Cl 300
		KDPOF	érez-Aranda, Rubén			KDPOF	anda, Rubén	Pérez-Arar
Modulation		Comment Status D	omment Type <b>T</b>	EZ		Comment Status D	t Туре <b>Т</b>	Comment 7
		tion.	No needed for specificat				plexer?	Multiple
			uggestedRemedy Remove clause.	n the RS-FEC encoder	the first bit from	I value of r[0] is xor-ed with	•	
		Response Status W	roposed Response PROPOSED ACCEPT.			Response Status W	<i>Response</i> POSED ACCEPT.	Proposed F
# 337	L18	P 90	<b>300</b> SC <b>300.2.3.</b> 7	# 000		<b>D00</b>		<u> </u>
		Corning	bbott, John	# 336	L <b>2</b>	P 90	SC 300.2.3.6	C/ 300
PAN		Comment Status D	omment Type E change PAM2 to NRZ	PAM		Corning Comment Status D	t Type E	Abbott, Joł Comment 7
			uggestedRemedy change PAM2 to NRZ				•	Suggested
		Response Status W	roposed Response PROPOSED ACCEPT.			Response Status W	ge PAM2 to NRZ <i>I Response</i> POSED ACCEPT.	Proposed F
# 338	L 19	P 90	300 SC 300.2.3.7					
		Corning	bbott, John	# 82	L <b>2</b>	P 90	SC 300.2.3.6	Cl 300
PAN		Comment Status D	omment Type E			KDPOF	anda, Rubén	
			change PAM2 to NRZ			Comment Status D		Comment 1
			uggestedRemedy change PAM2 to NRZ	ecification and providing	biguity in the spe	LAB code was used for form t was used for avoiding amb check the correct understar	a transmit block. It	along a
		Response Status W	roposed Response				edRemedy	Suggested
			PROPOSED ACCEPT.		eline.	corresponding text per base	MATLAB code and	Add M
# 339	L 30	P 90	300 SC 300.2.3.7			Response Status W	l Response	Proposed F
		Corning	bbott, John	amples of input and	nneves with eva	302.3 and add informative a	POSED REJECT.	
PAN		Comment Status D	omment Type E change PAM2 to NRZ		TITIERES WITTERA		output bit streams.	
			uggestedRemedy change PAM2 to NRZ					
		Response Status W	roposed Response PROPOSED 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 C/ 300 SC 300.2.3.7 SORT ORDER: Clause, Subclause, page, line

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# 85

D 1.0 Comment Report

C/ 300	C/ 300 SC 300.2.4		P 90	L 28	# 86
Pérez-Aranda, Rubén		bén	KDPOF		
Comment Type T		т	Comment Status D		Receiver
Incompl	ete sp	ecificatior	n. No PHD decoding.		

### SuggestedRemedy

Add text about TRC decoding (majority voting), CRC16 detection. E.g. The PHD 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."

PROPOSED ACCEPT.		. ,		
C/ 300	SC 300.2.4	Pg	0	L 28

Pérez-Aranda, RubénKDPOFComment TypeTComment StatusD

What is code-group? What is parameter rx\_symb?

### SuggestedRemedy

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."

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.

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 300	SC 300.2.4	P 90	L <b>42</b>	# 87
Pérez-Ara	anda, Rubén	KDPOF		
Comment PCS r	<i>Type</i> <b>T</b> receive process n	Comment Status D		EZ
Suggested Repla	dRemedy ice monitors with	decodes.		
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		

PROPOSED ACCEPT.

C/ 300	SC 300.2.4	P 91	L7	# 93
Pérez-Ara	nda, Rubén	KDPOF	-	
Comment TRC d	<i>Type</i> <b>T</b> lecoding is misse	<i>Comment Status</i> <b>D</b>		Receiver
S <i>uggested</i> Add su	<i>IRemedy</i> ubclause.			
•	Response OSED ACCEPT.	Response Status W		
C/ 300	SC 300.2.4	P 91	L <b>7</b>	# 92
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Receiver
	ve block ordering ocks and PHD is	where RS-FEC decoded moments	essage is specifi	ed to be split into 65-
Suggestea Add su	<i>IRemedy</i> ubclause.			
•	Response OSED ACCEPT.	Response Status W		
CI 300	SC 300.2.4	<i>P</i> 91	L7	# 91
Pérez-Ara	nda, Rubén	KDPOF		
Comment RS-FE	<i>Type</i> <b>T</b> EC decoder sub-c	Comment Status <b>D</b> lause is missed.		FEC decoder error
Suggestea Add si	•	ing the points needed for int	teroperability e d	n error detection

Add sub-clause specifying the points needed for interoperability, e.g. error detection signaling. E.g. 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. The bit stream is then binary descrambled."

### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

"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."

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	300.2.4	

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IEEE 802.cz Multi-C	Gig Aut IEEE P802.3	3cz D1.0 Mul	ti-Gig Automotive Optica	al Ethernet F	PHY 1st Task	Force review commer	nts D 1	.0 Comment Report
C/ 300 SC 300.2.4.	1 <i>P</i> 90	L 46	# 88	C/ 300	SC 300.2.4.2	P 90	L 51	# 341
Pérez-Aranda, Rubén	KDPOF			Abbott, Joh	าท	Corning		
Comment Type T	Comment Status D		Transmit Block synch	Comment 7		Comment Status D		PAM
	onization is not intended to be ming recovery together with E			change	PAM2 to NRZ			
	o, timing-recovery and EQ ca			Suggestedl	•			
SuggestedRemedy				change	PAM2 to NRZ			
Remove this clause.				Proposed F	Response	Response Status W		
Proposed Response	Response Status W			PROP	OSED ACCEPT.			
PROPOSED ACCEPT	IN PRINCIPLE. See #63			C/ 300	SC 300.2.4.2	P 90	L 53	# 342
C/ 300 SC 300.2.4.	1 P 90	L 48	# 340	Abbott, Joh	าท	Corning		
Abbott, John	Corning	- +0	" 040	Comment 7	Гуре Е	Comment Status D		PAM
Comment Type E	Comment Status D		PAM	change	PAM2 to NRZ			
change PAM2 to NRZ			, , , , , , , , , , , , , , , , , , ,	Suggestedl	Remedy			
SuggestedRemedy	()			change	PAM2 to NRZ			
change PAM2 to NRZ				Proposed F	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Response	Response Status W			PROP	OSED ACCEPT.			
PROPOSED ACCEPT	,			C/ 300	SC 300.2.4.2	P 90	L 54	# 343
C/ 300 SC 300.2.4.2	2 <i>P</i> 90	L 51	# 89	Abbott, Joh	าท	Corning		
Pérez-Aranda, Rubén	KDPOF	231	# 05	Comment 1	Гуре Е	Comment Status D		PAM
Comment Type T	Comment Status D		Modulation	change	PAM2 to NRZ			
51	passes detected bits to PCS.	No demanning		Suggestedl	Remedy			
		No demapping		change	PAM2 to NRZ			
SuggestedRemedy Remove this clause.				Proposed F	Response	Response Status W		
Proposed Response	Deserves Otatus 14				DSED ACCEPT.	,		
PROPOSED ACCEPT	Response Status W							

C/ 300 SC 300.2.4.2 Page 51 of 60 05/03/2021 22:38:49

D 1.0 Comment Report

C/ 300	SC 300.2.4.3	P 91	L 5	# 90	C/ 300	SC 300.3.1	
Pérez-Ara	anda, Rubén	KDPOF			Pérez-Arand	la, Rubén	
Comment	Type <b>T</b>	Comment Status D			Comment Ty	vpe T	Comment S

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.see To:see The PCS descrambles the data stream and returns the proper sequence of bits to the RS-FEC decoder.

#### Proposed Response Response Status W

PROPOSED 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" to "The resulting sequence of bits is used as input to the RS-FEC decoder for generation of RXD<31:0> to the XGMII or 25GMII"

C/ 300	SC 300.2.4.4	P 91	L 18	# 94
Pérez-Aranc	la, Rubén	KDPOF		
Comment Ty	/pe T	Comment Status D		FEC 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.

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

A new subclause for RS-FEC decoder will be added. The reference will be changed to this new subclause.

C/ 300	SC 300.3.1	P 91	L 31	# 96
	000000		201	
Pérez-Ara	inda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Modulation
Specit	fy 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.

Proposed Response PROPOSED ACCEPT.		Response Status W				
C/ 300	SC 300.3.1	<i>P</i> 91	L 33	# 344		
Abbott, Jo	ohn	Corning				
<i>Comment</i> chang	<i>Type</i> <b>E</b> ge PAM2 to NRZ	Comment Status D		PAM		
Suggester chang	<i>dRemedy</i> ge PAM2 to NRZ					
,	Response POSED ACCEPT.	Response Status W				

C/ 300 SC 300.3.1

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D 1.0 Comment Report

C/ 300	SC	300.3.2		P 91	L 45	# <u>97</u>
Pérez-Arand	la, Ru	ıbén	KI	DPOF		
Comment Ty	фe	т	Comment Stat	tus <b>D</b>		Transmit Block synch
To includ	de tra	nsmit blo	ck synchronizatio	n.		

### 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.

## Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove last unnecessary sentence:

"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."

CI 300	SC	300.3.3.1	P 9:	2	L 6	# 98
Pérez-Aranc	la, Ru	ıbén	KDPC	DF		
Comment Ty	/pe	т	Comment Status	D		Modulation
PAM2 te	erm no	ot needed f	or specification.			

### SuggestedRemedy

Replace with: "...... a(n) takes its value from the set {-1, +1}. "T Remove: "Ts shall be 1000 / (53.125 × S) ps, and depends on the MultiGBASE-AU PHY. See Table 300–1 for the definition of S for each MultiGBASE-AU PHY." Now in transmit function per other comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 300	SC 300.3.3.1	P <b>92</b>	L <b>6</b>	# 345
Abbott, Jo	hn	Corning		
Comment change	<i>Type</i> <b>E</b> e PAM2 to NRZ	Comment Status D		PAM
Suggested change	<i>IRemedy</i> e PAM2 to NRZ			
Proposed I PROP	Response OSED ACCEPT.	Response Status W		
C/ 300	SC 300.3.3.1	P 92	L <b>8</b>	# 99
Pérez-Ara	nda, Rubén	KDPOF		
Comment Subcla		Comment Status D received from the PMD is m	issed.	Receiver
Suggested Add su		wording and equations of 1 <sup>°</sup>	I5.3.3.2 are valid	here.
,	Response OSED ACCEPT.	Response Status W		
C/ 300	SC 300.3.4.1	P 93	L 28	# 100
Pérez-Ara	nda, Rubén	KDPOF		
Comment (see 3	<i>Type</i> <b>T</b> 00.2.3.4.10) no va	Comment Status D alid reference.		EZ

### SuggestedRemedy

Replace by a reference to 64B/65B receive state diagram.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 300 SC 300.3.4.1 Page 53 of 60 05/03/2021 22:38:50

D 1.0 Comment Report

C/ 300	SC 300.3.4.1	P 93	L 31	# 101
Pérez-Ara	anda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		tx_xmii_idle
FALS	E: The 64B/65B de	ecoder does not decode rec	eived PDBs fron	n the link partner
Suggested	dRemedy			
	E: The 64B/65B de fault is signaled in	ecoder does not decode rec XGMII or 25GMII.	eived PDBs fron	n the link partner and
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
not de		N PRINCIPLE. Replace by: Bs from the link partner and		
C/ 300	SC 300.3.4.1	P 93	L <b>45</b>	# 102
Pérez-Ara	anda, Rubén	KDPOF		
Comment (see 3	<i>Type</i> <b>T</b> 300.2.3.4.10) no va	Comment Status D lid reference.		EZ
S <i>uggested</i> Repla	,	to 64B/65B transmit state d	iagram.	
,	Response POSED ACCEPT.	Response Status W		
C/ 300	SC 300.3.4.1	P 93	L <b>50</b>	# 103
Pérez-Ara	anda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		tx_xmii_idle
For co	ompatibility with C/	coded in transmitted PDBs 46.3.4, 65B blocks encodin ii_enable = FALSE. In case	g Local Fault ord	

training, the remote RS may receive transitions LF- IDLE - RF - IDLE when link is stablished, i/o LF - RF - IDLE, because the encoded transmitted 65B during training are not consistent with the ordered sets generated by the 65B decoder in the remote partner.

### SuggestedRemedy

Replace with "Local Fault ordered sets are encoded in … "Change shift register reset value of binary scrambler (page 89, line 52) to another one optimum for the new training sequence. (I will do a contribution for solving this comment)" Figure 300-21, page 105, line 5, replace IBLOCK\_T with LBLOCK\_T in TX\_INIT state. Revise 300.2.3 for consistency.

### Proposed Response Response Status W

PROPOSED ACCEPT.

CI 300	SC 300.3.4.1	P 93	L 51	# 104
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		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.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 300	SC	300.3.4.2	P <b>94</b>	L <b>40</b>	# 105
Pérez-Ara	Pérez-Aranda, Rubén		KDPOF		
Comment	Туре	т	Comment Status D		EZ

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)"

### Proposed Response Response Status W

PROPOSED ACCEPT.

CI 300	SC 300.3.4.2	P 94	L <b>44</b>	# 106
Pérez-Arano	la, Rubén	KDPOF		
Comment Ty	/pe T	Comment Status D		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).

Proposed Response Response Status W PROPOSED 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/ 300 SC 300.3.4.2 Page 54 of 60 05/03/2021 22:38:50

D 1.0 Comment Report

Cl 300	SC 300.3.4.2	P 94	L <b>46</b>	# 107
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре <b>т</b>	Comment Status D		tx_xmii_idle
transfe	er is not part of a p	necessary, waits until the packet or error propagatic psistent with other commo	n (link status = O	
Suggested Per co	IRemedy omment.			
•	Response POSED ACCEPT.	Response Status W		
C/ 300	SC 300.3.4.3	P <b>95</b>	L 52	# 108
Pérez-Ara	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		Transmit Block synch
compr PMAR	ises two stages. T X_TIMING_COAF	nt by recovering clock fro he first stage is coarse ti RSE, where symbol synch is achieved (sotxb synch	ming recovery in nonization shall be	

### SuggestedRemedy

"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), ... "

## Proposed Response Response Status W PROPOSED ACCEPT.

C/ 300	SC 300.3.4.3	P 96	L 5	# 109
Pérez-Arai	nda, Rubén	KDPOF		
Comment	Туре Т	Comment Status D		EZ

"Blind tracking algorithms for timing recovery can be enabled after the equalizer training has finished."

### SuggestedRemedy

Remove. It is implementation decision the algorithms to use.

Proposed Response	Response Status	w	
-------------------	-----------------	---	--

PROPOSED ACCEPT.

C/ 300	SC 300.3.4.3	P 9	6	L <b>5</b>	# 312
Hayashi, <sup>-</sup>	Takehiro	HATI	_ab., Inc.		
Comment No de	51	Comment Status racking algorithms""	-		
Suggested add de	<i>IRemedy</i> efinition				
Proposed	Response	Response Status	w		

PROPOSED ACCEPT IN PRINCIPLE. Remove sentence per comment #109

C/ 300	SC 300.3.4.3	в Р <b>96</b>	L13	# 110
Pérez-Ara	anda, Rubén	KDPOF		
Comment	Туре Е	Comment Status D		EZ
wheth	ner this reception	is reliable		
Suggeste	dRemedy			
wheth	er the 65B block	s reception is reliable.		

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 300 SC 300.3.4.3

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

D 1.0 Comment Report

CI <b>300</b> S	SC 300.3.4.3	P 96	L 19	# 111	C/ 300	SC 300.3.4.5	P 98	L3	# 112
Pérez-Aranda,	Rubén	KDPOF			Pérez-Ara	nda, Rubén	KDPOF		
Comment Type	e T	Comment Status D		Terminology	Comment	Туре Т	Comment Status D		E
PCS deco	der does not o	decode PDBs received from I	ink partner				n of headers" seems to be		
SuggestedRen			for an Ballan and				e is not defined and it is n stent with baseline.	ot assigned by any	other state diagram o
Fault"	der does not	decode 65B blocks received	from link partne	er and generate Local	Suggested	lRemedy			
Proposed Res	ponse	Response Status W			Remo	ve text and variab	le in the state diagram.		
PROPOSE	ED ACCEPT I	N PRINCIPLE. "PCS decode er and generate Local Fault o		ode 65B blocks	Proposed PROP	Response OSED ACCEPT.	Response Status W		
2/ <b>300</b> S	SC 300.3.4.3	P 96	L 23	# 313	C/ 300	SC 300.3.5.2	P 99	L 53	# 114
layashi, Take	hiro	HAT Lab., Inc.			Pérez-Ara	nda, Rubén	KDPOF		
Comment Type "transit" ma	e E ay not a prope	Comment Status D er term.			<i>Comment</i> "at the	<i>Type</i> <b>T</b> PAM2 decoder of	Comment Status D ecision points"		Modulati
SuggestedRen Use "transi					<i>Suggested</i> "at the	IRemedy symbols detecto	r decision points"		
Proposed Resp PROPOSE		<i>Response Status</i> <b>W</b> It is a verb, not a noun.			Proposed PROP	Response OSED ACCEPT.	Response Status W		
ci <b>300</b> S	SC 300.3.4.5	P 97	L35	# 113	C/ 300	SC 300.3.5.2	P 99	L <b>54</b>	# 346
érez-Aranda,	, Rubén	KDPOF			Abbott, Jo	hn	Corning		
Comment Type "on entry" I	e <b>E</b> has no meani	Comment Status D		EZ	<i>Comment</i> chang	<i>Type</i> E e PAM2 to NRZ	Comment Status D		PA
<i>SuggestedRen</i> Remove it.					Suggested chang	<i>IRemedy</i> e PAM2 to NRZ			
Proposed Resp PROPOSE	<i>ponse</i> ED ACCEPT.	Response Status W			Proposed		Response Status W		

C/ 300 SC 300.3.5.2 Page 56 of 60 05/03/2021 22:38:50

D 1.0 Comment Report

C/ 300 SC 300.3.5.2	P 100	L <b>2</b>	# 347	C/ 300 SC 30		P 100	L15	# 117
Abbott, John	Corning			Pérez-Aranda, Rubé		KDPOF		
Comment Type E change PAM2 to NRZ	Comment Status D		PAM	Comment Type <b>1</b> Definition of PH		ent Status <b>D</b> state variables is i	missed	Miss te
SuggestedRemedy change PAM2 to NRZ				SuggestedRemedy Add subclause,	similar to C/ 115	.3.7.3.		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED AC	1	nse Status W		
C/ 300 SC 300.3.5.2	P 100	L <b>2</b>	# 115	CI 300 SC 30	0.3.5.3	P 100	L <b>24</b>	# 118
Pérez-Aranda, Rubén	KDPOF			Pérez-Aranda, Rubé	en	KDPOF		-
Comment Type T	Comment Status D		Modulation	Comment Type 1	Comm	ent Status D		Cross reference
"PAM2 decoder"						It should be define nces to C/115, with		
SuggestedRemedy Replace with "symbols	dotoctor"			SuggestedRemedy				
1				Per comment. G	eneral to C/300.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED AC	1	ise Status W		
C/ 300 SC 300.3.5.2	P 100	L <b>9</b>	# 116	C/ 300 SC 30		P 100	L 31	# 314
érez-Aranda, Rubén	KDPOF				0.3.5.3			# 314
<i>comment Type</i> <b>T</b> "required for reception of	Comment Status <b>D</b> of RS-FEC coded PAM2"		Modulation	Hayashi, Takehiro <i>Comment Type</i> <b>1</b>	Comm	HAT Lab., In ent Status <b>D</b>	с.	
SuggestedRemedy				No explanation of	of step "PMAMO	N_SYNCH"		
Replace with "required	for reception of RS-FEC coc	lewords"		SuggestedRemedy				
Proposed Response	Response Status W			add explantion o	—	NCH"		
PROPOSED ACCEPT.				Proposed Response	,	nse Status W		
C/ 300 SC 300.3.5.2	P 100	L 9	# 348		by "After at least	CIPLE. Substitute " t one locally transn		locally transmitted lock
Abbott, John	Corning			(				
<i>Comment Type</i> <b>E</b> change PAM2 to NRZ	Comment Status D		PAM					
uggestedRemedy change PAM2 to NRZ								
Proposed Response PROPOSED ACCEPT.	Response Status W							

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

C/ 300 SC 300.3.5.3 Page 57 of 60 05/03/2021 22:38:50

D 1.0 Comment Report

	Dicc		# [110	0.000	D.45.	1.10	# [101
C/ 300 SC 300.3.6	P 100	L 41	# 119	C/ 300 SC 300.6.1		L <b>46</b>	# 121
Pérez-Aranda, Rubén	KDPOF		_	Pérez-Aranda, Rubén	KDPOF		
Comment Type E	Comment Status D		Re-structure text	Comment Type T	Comment Status D		BASE-U
These state diagrams b	belong to PCS sublayer.			According to PHY na the PMD or complete	me conventions, BASE-U ider	ntifies the PCS ar	nd PMA, and BASE-AU
SuggestedRemedy				SuggestedRemedy			
Move to PCS subclause	е.			Correct per commen	t.		
Proposed Response	Response Status W			Proposed Response	Response Status W		
PROPOSED ACCEPT.				PROPOSED ACCEF	,		
C/ 300 SC 300.3.6	P 100	L <b>41</b>	# 84	Substitue "the service	es provided by a MultiGBASE-		
Pérez-Aranda, Rubén	KDPOF			PMA." by "the service PMA."	es provided by a BASE-AU PM	ID connected to	BASE-U
Comment Type T	Comment Status D		Re-structure text				
65-bit block transmissic	on and reception belongs to	PCS, no PMA.		C/ 300 SC 300.6.1	.1 <i>P</i> 107	L <b>3</b>	# 122
SuggestedRemedy				Pérez-Aranda, Rubén	KDPOF		
	a subclause to PCS transmit	function. Move r	eception as a	Comment Type <b>T</b>	Comment Status D		EZ
subclause to PCS recei	iver function.			"analog signal amplit	ude". In reality symbols with va	alue {-1} and {+1}	
Proposed Response	Response Status W			SuggestedRemedy			
PROPOSED ACCEPT.				Correct per commen	t.		
C/ 300 SC 300.3.6.1	P 102	L 11	# 120	Proposed Response	Response Status W		
Pérez-Aranda, Rubén	KDPOF			PROPOSED ACCEF	РТ.		
Comment Type T	Comment Status D			C/ 300 SC 300.7	Р	L	# 352
UBLOCK_R is not used	d by any state diagram 🔛 Ne	ither others like L	.PBLOCK_T/R and	Swanson, Steve	Corning Inc		
	these last ones are expected	d to be used by t	the state diagrams	Comment Type E	Comment Status D		
when LPI is defined (se	e e.g. C/55, C/149, ).			21	der of 300.7 and 300.8?		
SuggestedRemedy				SuggestedRemedy			
_	This PHY will not generate L	ink Interruption c	ordered sets to RS.	cuggoolourionicuy			
Proposed Response	Response Status W			Proposed Response	Response Status W		
PROPOSED ACCEPT.				PROPOSED REJEC			
					Draft 1.0 for channel and MDI	definition is a me	re placeholder, and it is
				up to the MDI/channe	el baseline proponent to chang	e or not the orde	r.

C/ 300 SC 300.7

D 1.0 Comment Report

C/ 300 SC 300.13	P 109	L13	# 198	C/ 300,1 SC 300,1 P71 L15 # 38
Grow, Robert	RMG Consult	ing, KDPOF		Pérez-Aranda, Rubén KDPOF
Comment Type E C	omment Status D			EZ Comment Type E Comment Status D BASE
PICS should start on a new	page.			According to PHY naming conventions, U is used to designate PCS and PMA, and A used for PMD and complete PHY naming.
SuggestedRemedy Insert page break before PI	CS.			SuggestedRemedy
Proposed Response Re	esponse Status W			In the first part of the paragraph, where PCS and PMA is referred, use BASE-U.
PROPOSED ACCEPT.				Proposed Response Response Status W PROPOSED ACCEPT.
C/ 300 SC Figure 300-4	P 77	L 11	# 197	C/ 300,1 SC 300,1 P71 L20 # 127
Grow, Robert	RMG Consult	ing, KDPOF		
Comment Type E C	omment Status D			EZ Hyakutake, Yasuhiro Adamant Namiki Precision Jewel Co., Ltd. Comment Type E Comment Status D
8B/10B. IEEE style should 8b/10b. (Capital B is byte a code names since, but hop	n lower case b is bit.) W	le have consiste	ntly used a capital E	I recommend the final sentence conjunction word may chose "and", if the 50GBASE-AU n Physical Layer as the same equivalency a 2.5GBASE-AU, 5GBASE-AU, 10GBASE-AU, 25GBASE-AU.
SuggestedRemedy				SuggestedRemedy
Change 65B to 65-bit (like i	s done for 20-bit).			The conjunction word "or" change to "and".
Proposed Response Re	esponse Status 🛛 🛛 🛛 🛛 🖤			Proposed Response Response Status W
PROPOSED ACCEPT.				PROPOSED REJECT.
C/ <b>300,1</b> SC <b>300,1</b> Pérez-Aranda, Rubén	P 71 KDPOF	L 15	# 39	Accepting this comment would change the meaning of the sentence. A set of PCS, PMA and PMD sublayer can only be a PHY type that will be only one pick from the set {2.5GBASE-AU, 5GBASE.AU, 10GBASE-AU, 25GBASE-AU, 50GBASE-AU}, so right the conjuntion word is "or".
,	omment Status D		BAS	-U
If BASE-U and BASE-AU a	re defined, it would be co	onvenient to inclu	de some description	C/ 300,1 SC 300,1 P71 L 37 # 40
the overview.				Pérez-Aranda, Rubén KDPOF
SuggestedRemedy				Comment Type T Comment Status D OA
Add description if BASE-U	and/or BASE-AU are add	led to c/ 1.4.		OAM optional capability should be BASE-U OAM and specified in C/300, although its
Proposed Response Re	esponse Status W			specification do references C/115 to make easier maintenance and avoiding repeating tex unnecessary.
				SuggestedRemedy
PROPOSED ACCEPT.				Cuggeoleaneay
PROPOSED ACCEPT.				Correct the text accordingly.

 C/
 300,1
 Page 5

 SC
 300,1
 05/03/

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CL 200 42	SC 200 42	D 400	1 27	
C/ 300,12	SC 300,12	P 108	L 37	# 123
Pérez-Arano	,	KDPOF		
Comment Ty "that the	<i>ype</i> <b>E</b> ere be" —> mea	Comment Status D		EZ
SuggestedR Remove	•			
Proposed R PROPO	esponse ISED ACCEPT	Response Status W		
C/ 300,12	SC 300,12	P 109	L <b>3</b>	# 124
Pérez-Arano	da, Rubén	KDPOF		-
quanta.	,	is the same for all the data- esult of multiplying the number is the number of multiplying the number of multiplying the number of multiplying the number of the number		<i>i</i>
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period (i SuggestedR	,			
SuggestedR	,	nent.		
SuggestedR Correct Proposed Re	<i>Remedy</i> table per comn	Response Status W		
SuggestedR Correct Proposed R PROPO	Remedy table per comn esponse	Response Status W	L 26	# 95
SuggestedR Correct Proposed Re	Remedy table per comm esponse ISED ACCEPT SC <b>300,3</b>	Response Status W	L 26	
SuggestedR Correct Proposed R PROPO C/ <b>300,3</b>	Remedy table per comm esponse SED ACCEPT SC <b>300,3</b> da, Rubén	Response Status W	L 26	
SuggestedR Correct Proposed Ri PROPO Cl 300,3 Pérez-Aranc Comment Ty "for cont	Remedy table per comm esponse SED ACCEPT SC <b>300,3</b> da, Rubén ype <b>E</b> trol of the Multio	Response Status W P 91 KDPOF		# <u>95</u>
SuggestedR Correct Proposed Ri PROPO Cl 300,3 Pérez-Aranc Comment Ty "for cont	Remedy table per comm esponse SED ACCEPT SC <b>300,3</b> da, Rubén ype <b>E</b> trol of the Multio " phrase is red	Response Status W P 91 KDPOF Comment Status D GBASE-AU PHY and link (se		# <u>95</u>
SuggestedR Correct Proposed R PROPO C/ 300,3 Pérez-Aran Comment Ty "for cont 300.3.5) SuggestedR	Remedy table per comm esponse SED ACCEPT SC 300,3 da, Rubén ype E trol of the Multid " phrase is red Remedy	Response Status W P 91 KDPOF Comment Status D GBASE-AU PHY and link (se	ee 300.3.4) and f	# <u>95</u>

CI 300,3 SC 300,3 Page 60 of 60 05/03/2021 22:38:50