C/ <b>FM</b>	SC	FM	P <b>1</b>	L11	# I-7		C/ FM	SC	FM		P <b>1</b>	L <b>32</b>	# I-109
Grow, Ro	bert		KDPOF,RMG	Consulting			Dawe, Pier	rs J G		N\	/IDIA		
Comment	t Type	G	Comment Status D			Title	Comment	Туре	Е	Comment Sta	tus <b>D</b>		PAR sync
come of the The c introd	e up with e PAR) b documen luction o	an accept ut shorter. It title occu n page 10	e in a large font it is really too table title that is in compliance A modified version could a urs on: title page, the boxed and internal title on page 2 AR Title, or within the scope	ce with IEEE SA Iso be adapted f paragraph of th 1. All should be	rules (within the for P802.3dh. e front matter consistent, eithe	scope r	and Ma amend parame manag	anagen Iment t eters fo gement	nent Para o IEEE S or". 802.3 paramet	ameters for" and o td 802.3-2022 add 3db says "This am	n the next Is physica endment ays "This	t page the abstrac al layer specificati adds Physical La	I Layer specifications ct says "This ons and management yer specifications and udes Physical Layer
	•	•	are rule, or warm the scope	as required by c		.2.0.2.	Suggested	Remed	dy				
Parar	oossible neters fo	alternate a	amendment title is: "Physica gabit Automotive Ethernet U	Ising Glass Option	cal fiber". Anothe	er	from "N	Úanage	ement Pa	use style, align wit rameters". e.g. "7 ameters for"	h self-des This amen	cription on page Idment adds Phys	<ol> <li>Remove capitals sical Layer specifications</li> </ol>
altern Glass	ative is: Fiber O	"Physical optical Auto	Layer Specifications and Ma	anagement Para P802.3cv title si	meters for Multi-0 tructure)	Gigabit	Proposed I	Respor	nse	Response Stat	us W		
Glass Fiber Optical Automotive Ethernet" (closer to P802.3cy title structure)										IN PRINCIPLE.	tio to ode	La nour Dhuaiael I	Laver specifications and
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change " Physical Layer Specifications and Management Parameters for Multi-Gigabit Optical Ethernet Using Graded-Index Glass Optical Fiber for Application in the Automotive Environmet"					it	Manag to	jement	Paramet	ers for"		,	nent parameters for"	
to: "P	hysical L	_ayer Spe	cifications and Management e Ethernet"		Multi-Gigabit Gla	SS	CI FM	SC	FM		P <b>1</b>	L <b>33</b>	# I-12
Fiber	Optical	Automotiv					Torres, Lui				-	Development for	Plastic Optical Fiber
C/ FM	SC	FM	P <b>1</b>	L <b>31</b>	# I-6		Comment		E	Comment Sta			PAR sync.
Grow, Ro	bert		KDPOF,RMG	Consulting						escription should ir	iclude the	type of fiber spe	cified in PAR.
Comment		Е	Comment Status D			R synch	Suggested		•				
Minor	gramma	ar problem	n that could be fixed when up	odating paragrap	oh for the next dra	aft.	Add "u	ising gr	aded-ind	ex glass optical fit	er" after '	'Automotive Ethe	rnet"
Suggeste	dRemea	ly					Proposed I	Respor	nse	Response Stat	us <b>W</b>		
	ge "add fications		ysical Layer specifications" to	o "add new Phys	sical Layer		PROP	OSED	ACCEPT				
Proposed	l Respon	ise	Response Status W										
PRO	POSED	ACCEPT	IN PRINCIPLE.										
See #	≠i-109 re	sponse as	copied below:										
		purpose o Paramete	of the amendment is to add a rs for"	a new Physical L	ayer specification	ns and							
Mana													
Mana to	-	nent adds	Physical Layer specification	is and manadem	ent parameters f	or"							

Pa **1** Li **33** 

C/FM SC FM	P <b>2</b>	L <b>2</b>	# 1-13	C/ FM	SC FM	P <b>12</b>	L14	# I-21
Forres, Luis	Knowledge I	Development for	Plastic Optical Fiber	Wienckow	/ski, Natalie	General Mo	tors Company	
Comment Type E	Comment Status D		PAR synch	Comment	Type E	Comment Status D		Editorial scop
The abstract should in	clude the type of fiber specif	ied in PAR.		The c	orrect expansio	on of PMA is Physical Medium	n Attachment pe	r 802.3-2022 1.5.
SuggestedRemedy				Suggestee	dRemedy			
Substitute "optical fibe Proposed Response	er" with "graded-index glass of	ptical fiber"				edia Attachment (PMA) n Attachment (PMA)		
PROPOSED ACCEPT	Response Status W			Proposed	Response	Response Status W		
Change				PROF	POSED ACCEF	T IN PRINCIPLE.		
to "glass optical fiber in t See #i-120	he automotive environment"			of Am	endment 7 (se	ake the required change as t e Editor's note). (Commented sted change will be made if ap	I text is taken fro	m 802.3cs D3.4).
Cl Introdu SC Introduc	ction P10	L <b>2</b>	# I-14	TIOWE	ver, the sugget			
Torres, Luis <i>Comment Type</i> E	Comment Status D		Plastic Optical Fiber <i>Title</i>	802.3		een communicated to the 802 uent approved amendment pu		
	ndment does not match with	the one given in	page 1	C/ 0	SC O	P <b>21</b>	LO	# <mark>I-1</mark>
SuggestedRemedy				Turner, Mi	ichelle	Editorial Co	ordination	
0	dex Glass Optical Fiber" afte	r "Automotive Et	hernet"	Comment	Type E	Comment Status D		Title
Proposed Response	Response Status W			The ti	tle on page 21	and in the introduction box is	different from w	nat is cited on page 1.
PROPOSED ACCEPT Change "Layer Specifi Automotive Ethernet."	FIN PRINCIPLE. ications and Management Pa	arameters for Mu	Ilti-Gigabit Optical	Suggestee It sho		ed to match what is on page ?	l as per the mod	ified PAR.
to "Physical Layer Spe Fiber Optical Automot See #i-7	ecifications and Management ive Ethernet"	t Parameters for	Multi-Gigabit Glass	•	Response POSED ACCEF	Response Status W		
				Optica to "Ph	al Automotive E	pecifications and Managemer	•	0

See #i-7 which addresses the impractical length of the title on the PAR and selecting a title consistent with 802.3 WG requirements.

Pa **21** Li **0** 

C/ FM	SC FM	P <b>21</b>	L10	# <mark>I-117</mark>	C/ 1	SC 1.4.95a	P <b>22</b>	L <b>22</b>	# I-25
awe, Piers	s J G	NVIDIA				vski, Natalie	General Mo	tors Company	
Comment T	ype E	Comment Status D		Title	Comment	Туре Т	Comment Status D		PAR sync
Man- agemer							2.3dh. In doing this, the P8 per as plastic optical fiber is		were modified to
	Bad hyphenation hyphenated as I	n. 802.3db and 802.3ck don'i Manage-	t split "Managem	ent". These could be	Suggestee	dRemedy			
ment, C	<b>71</b>	vialiage			Chang	ge: multimode o	ptical fiber for use in autom	otive applications.	
		yphenated. The very large te				-	pptical fiber for use in autom	otive applications.	
	•	er line, which is inconvenient	with 10-characte	r words.	•	Response	Response Status W		
SuggestedF	2				PROF	POSED ACCEPT			
Stop the Proposed R		g split here. Ask staff to redu Response Status W	ce this font size	by about 10%	C/ 1	SC 1.4.116a	P <b>22</b>	L <b>27</b>	# I-26
•		IN PRINCIPLE.			Wienckow	vski, Natalie	General Mo	tors Company	
		t title has been proposed in #	i-1 and #i-7.		Comment	Туре Т	Comment Status D		PAR sync
C/ 1	SC 1.4.62a	P <b>22</b>	L15	# I-119			2.3dh. In doing this, the P8 per as plastic optical fiber is		were modified to
Dawe, Piers	s J G	NVIDIA			Suggestee	dRemedy			
Comment T	ype E	Comment Status D		Fulll duplex			ptical fiber for use in autom		
As 44.1	.1 and 125.1.1	say, 2.5 Gigabit, 5 Gigabit an	nd 10 Gigabit Etl	hernet are defined for	To: m	nultimode glass o	pptical fiber for use in autom	otive applications.	
	lex mode of ope lefinitions that c	eration only. So no need to so lon't.	ay it here; there	are plenty of Physical	•	Response POSED ACCEPT	Response Status W		
SuggestedF									
00	Remedy						•		
	R <i>emedy</i> "full duplex", fo	ur times.			C/ 1	SC 1.4.165a		L <b>32</b>	# 1-27
	"full duplex", for	ur times. Response Status W			C/ 1	SC <b>1.4.165a</b> /ski, Natalie	P <b>22</b>	L <b>32</b> tors Company	# I-27
Delete " Proposed R	"full duplex", for	Response Status W			C/ 1	vski, Natalie	P <b>22</b>	-	# I-27 PAR sync
Delete " Proposed R PROPC Definitio	"full duplex", for Response DSED REJECT ons should cont	Response Status W			Cl 1 Wienckow Comment P802.	vski, Natalie <i>Type</i> <b>T</b> 3cz split off P802	P <b>22</b> General Mo	tors Company 02.3cz objectives	PAR sync
Delete " Proposed R PROPC Definitio i.e, the s	"full duplex", for Response DSED REJECT ons should cont	Response Status W : tain as much relevant informa			Cl 1 Wienckow Comment P802.	vski, Natalie <i>Type</i> <b>T</b> 3cz split off P802 y glass optical fil	P <b>22</b> General Mo <i>Comment Status</i> D 2.3dh. In doing this, the P8	tors Company 02.3cz objectives	PAR sync
Delete " Proposed R PROPC Definition i.e, the second	"full duplex", for Response DSED REJECT ons should com application of i. SC <b>1.4.62a</b>	Response Status W tain as much relevant informa e. Annex 4A depends on the P22	definition of thes		Cl 1 Wienckow Comment P802. specif Suggestee Chang	rski, Natalie <i>Type</i> <b>T</b> 3cz split off P802 y glass optical fil <i>dRemedy</i> ge: multimode o	P22 General Mo <i>Comment Status</i> D 2.3dh. In doing this, the P8 ber as plastic optical fiber is ptical fiber for use in autom	tors Company 02.3cz objectives covered by dh. otive applications.	PAR sync
Delete " Proposed R PROPC Definitio i.e, the C/ 1 Wienckowsł	"full duplex", for Response DSED REJECT ons should com application of i. SC <b>1.4.62a</b> ki, Natalie	Response Status W tain as much relevant informa e. Annex 4A depends on the P22 General Moto	definition of thes	# 1-24	Cl 1 Wienckow Comment P802. specif Suggestee Chang	rski, Natalie <i>Type</i> <b>T</b> 3cz split off P802 y glass optical fil <i>dRemedy</i> ge: multimode o	P22 General Mo <i>Comment Status</i> D 2.3dh. In doing this, the P8 ber as plastic optical fiber is	tors Company 02.3cz objectives covered by dh. otive applications.	PAR sync
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Delete " Proposed R PROPC Definitio i.e, the s Cl 1 Wienckowsk Comment T P802.30 specify SuggestedR Change To: mu Proposed R	"full duplex", for Response DSED REJECT ons should com application of i. SC 1.4.62a ki, Natalie Type T cz split off P802 glass optical fil Remedy e: multimode op ultimode glass of	Response Status W tain as much relevant informa e. Annex 4A depends on the P22 General Moto <i>Comment Status</i> D 2.3dh. In doing this, the P802 ber as plastic optical fiber is c ptical fiber for use in automotion potical fiber for use in automotion <i>Response Status</i> W	definition of thes <i>L</i> 17 rs Company 2.3cz objectives v overed by dh. we applications.	# [1-24 # [1-24 PAR synch were modified to	Cl 1 Wienckow Comment P802. specif Suggested Chang To: m Proposed	rski, Natalie Type <b>T</b> 3cz split off P802 y glass optical fil dRemedy ge: multimode op nultimode glass o Response	P22 General Mo <i>Comment Status</i> D 2.3dh. In doing this, the P8 ber as plastic optical fiber is ptical fiber for use in autom pptical fiber for use in autom <i>Response Status</i> W	tors Company 02.3cz objectives covered by dh. otive applications.	PAR sync

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

Pa **22** Li **32**  Page 3 of 25 11/10/2022 11:17:23

C/ <b>1</b>	SC 1.4.178a	P <b>22</b>	L <b>37</b>	# I-28	C/ <b>44</b>	SC 44.1.4.4		P <b>28</b>	L <b>47</b>	# I-120
Nienckows	ski, Natalie	General Motor	s Company		Dawe, Piers	JG	١	NVIDIA		
Comment 7	Туре Т	Comment Status D		PAR synch	Comment T	ype E	Comment St	tatus D		PAR syn
		3dh. In doing this, the P802 r as plastic optical fiber is co		were modified to			ligned to the project. See similar			ys "for application in th tion to" clauses.
Suggestedl	Remedy				Suggested	Remedy				
		ical fiber for use in automotivitical fiber for use in automotivitical fiber for use in automoti					ve applications" to otive environmer		ation in the auton	notive environment" or
Proposed F PROPC	Response OSED ACCEPT.	Response Status W				, SED ACCEPT	Response Sta T IN PRINCIPLE. cal fiber in the au		vironment".	
C/ 1	SC 1.4.204a	P <b>22</b>	L <b>42</b>	# I-29	C/ 44	SC 44.1.4.4		P <b>28</b>	L48	# 1-32
	<i>Type</i> <b>T</b> Bcz split off P802.3	General Motor <i>Comment Status</i> <b>D</b> 3dh. In doing this, the P802 r as plastic optical fiber is co	.3cz objectives v	PAR synch were modified to		ype T	<i>Comment</i> St 2.3dh. In doing t	<i>tatus</i> <b>X</b> this, the P802		PAR syn were modified to
Ruggootod	Bamadu				opeony	3	bei us plustie op		bovered by an.	
Suggestedl		option fiber in the outemativ	(o onvironment		Suggested	• •				
Change	e: operation over	optical fiber in the automotive soptical fiber in the automotive soptical fiber in the automotic			Suggested Change	Remedy transmission	n on optical fiber	for automotiv	ve applications.	
Change To: op	e: operation over peration over glass				Suggested Change To: tra	Remedy : transmission nsmission on g	n on optical fiber glass optical fiber	for automotiv for automoti	ve applications.	
Change To: op Proposed F	e: operation over peration over glass	s optical fiber in the automot			Suggestedf Change To: tra Proposed F	Remedy transmission nsmission on g esponse	n on optical fiber glass optical fiber <i>Response St</i>	for automotiv for automoti atus <b>W</b>	ve applications.	
Change To: op Proposed F PROPC	e: operation over peration over glass Response	s optical fiber in the automot			Suggestedf Change To: tra Proposed F PROPC	Remedy : transmission nsmission on g esponse DSED ACCEPT	n on optical fiber glass optical fiber	for automotiv for automoti atus <b>W</b>	ve applications. ive applications.	#i-120)
Change To: op Proposed F PROPC	e: operation over beration over glass Response OSED ACCEPT. SC <b>30.5.1.1.2</b>	s optical fiber in the automot Response Status W	L40		Suggestedf Change To: tra Proposed F PROPC	Remedy : transmission nsmission on g esponse DSED ACCEPT	n on optical fiber glass optical fiber <i>Response St</i> T IN PRINCIPLE. cal fiber in the au	for automotiv for automoti atus <b>W</b>	ve applications. ive applications.	#i-120) # [ <del>-36</del>
Change To: op Proposed F PROPC CI <b>30</b> Wienckows	e: operation over peration over glass Response OSED ACCEPT. SC <b>30.5.1.1.2</b> ski, Natalie	s optical fiber in the automot Response Status W P24	L40		Suggestedf Change To: tra Proposed F PROPC Change	Remedy : transmission nsmission on g esponse USED ACCEPT to "glass optic SC 45.2.1.15	n on optical fiber glass optical fiber <i>Response Sta</i> F IN PRINCIPLE. cal fiber in the au <b>58a.1</b>	for automotive for automotive atus <b>W</b> tomotive env	ve applications. ive applications. vironment" (See	
Change To: op Proposed F PROPO CI 30 Wienckows Comment 1 P802.3	e: operation over peration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Bcz split off P802.3	s optical fiber in the automoti Response Status W P24 General Motor Comment Status D 3dh. In doing this, the P802.	<i>L</i> 40 s Company 3cz objectives v	# <u>I-30</u> PAR synch	Suggested/ Change To: tra Proposed R PROPO Change Cl <b>45</b>	Remedy : transmission ismission on g esponse SED ACCEPT to "glass optic SC 45.2.1.15 sci, Natalie	n on optical fiber glass optical fiber <i>Response Sta</i> F IN PRINCIPLE. cal fiber in the au <b>58a.1</b>	for automotiv for automoti <i>atus</i> <b>W</b> tomotive env <i>P</i> 32 General Moto	ve applications. ive applications. vironment" (See	
Change To: op Proposed F PROPC C/ 30 Wienckows Comment 7 P802.3 specify	e: operation over peration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Boz split off P802.3 y glass optical fibe	P24 Comment Status D	<i>L</i> 40 s Company 3cz objectives v	# <u>I-30</u> PAR synch	Suggestedf Change To: tra Proposed F PROPC Change Cl 45 Wienckows Comment T When t	Remedy : transmission ismission on g esponse SED ACCEPT to "glass optic SC 45.2.1.15 ki, Natalie ype E alking about the	n on optical fiber glass optical fiber <i>Response St</i> T IN PRINCIPLE. cal fiber in the au <b>58a.1</b> <i>Comment St</i>	for automotiv for automoti atus W tomotive env P32 General Moto tatus D nations of bit	ve applications. ive applications. vironment" (See L23 ors Company ts in a register, ju	# [ <u>-36</u> <i>Number writi</i> ust the "01" stream is
Change To: op Proposed F PROPC Cl 30 Wienckows Comment 1 P802.3 specify Suggestedl Change	e: operation over beration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Bcz split off P802.3 y glass optical fibe Remedy e: Optical fiber Pl	A specified in Clause 16 HY as specified in Clause 16 Sophilie and the speci	<i>L</i> 40 s Company 3cz objectives v overed by dh.	# <u>I-30</u> PAR synch	Suggestedf Change To: tra Proposed F PROPC Change Cl 45 Wienckows Comment T When t	Remedy : transmission nsmission on g esponse DSED ACCEPT to "glass optic SC 45.2.1.15 xi, Natalie ype E alking about the Ob" is not put b	n on optical fiber glass optical fiber Response St T IN PRINCIPLE. cal fiber in the au 58a.1 Comment St re value of combi	for automotiv for automoti atus W tomotive env P32 General Moto tatus D nations of bit	ve applications. ive applications. vironment" (See L23 ors Company ts in a register, ju	# [ <u>-36</u> <i>Number writi</i> ust the "01" stream is
Change To: op Proposed F PROPO Cl 30 Wienckows Comment 1 P802.3 specify Suggested/ Change To: Gla	e: operation over peration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Boz split off P802.3 y glass optical fiber Remedy e: Optical fiber Pl lass optical fiber Pl	A specified in Clause 16 P24 P24 General Motor Comment Status D 3dh. In doing this, the P802. A specified in Clause 16 PHY as specified in Clause 16 PHY as specified in Clause 16	<i>L</i> 40 s Company 3cz objectives v overed by dh.	# <u>I-30</u> PAR synch	Suggestedf Change To: tra Proposed F PROPO Change Cl 45 Wienckows Comment 7 When t used. "	Remedy : transmission nsmission on g esponse DSED ACCEPT to "glass optic SC 45.2.1.15 xi, Natalie ype E alking about the Ob" is not put b	n on optical fiber glass optical fiber <i>Response Sta</i> T IN PRINCIPLE. cal fiber in the au <b>58a.1</b> <i>Comment St</i> before this. For a	for automotiv for automoti atus W tomotive env P32 General Moto tatus D nations of bit	ve applications. ive applications. vironment" (See L23 ors Company ts in a register, ju	# [ <u>-36</u> <i>Number writi</i> ust the "01" stream is
Cl ange Proposed F PROPO Cl a0 Wienckows Comment 1 P802.3 specify Suggested/ Change To: Gla Also P2 Proposed F	e: operation over beration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Boz split off P802.3 y glass optical fiber Remedy e: Optical fiber P1 lass optical fiber P2 24L45, P24L49, P	A specified in Clause 16 HY as specified in Clause 16 Sophilie and the speci	<i>L</i> 40 s Company 3cz objectives v overed by dh.	# <u>I-30</u> PAR synch	Suggestedf Change To: tra Proposed F PROPC Change Cl 45 Wienckows Comment T When t used. " Suggestedf Change P32L24 P32L24 P32L24	Remedy : transmission nsmission on g esponse DSED ACCEPT to "glass optic SC 45.2.1.15 xi, Natalie ype E alking about the Ob" is not put b Remedy	n on optical fiber glass optical fiber <i>Response St</i> T IN PRINCIPLE. cal fiber in the au <b>58a.1</b> <i>Comment St</i> te value of combin before this. For a 00 001 to 0001 0010 to 0010 0011 to 0011	for automotiv for automoti atus W tomotive env P32 General Moto tatus D nations of bit	ve applications. ive applications. vironment" (See L23 ors Company ts in a register, ju	# [ <u>-36</u> <i>Number writi</i> ust the "01" stream is
Cl 30 Wienckows Comment 1 P802.3 Suggestedl Change To: Gla Also P2 Proposed F	e: operation over peration over glass Response OSED ACCEPT. SC 30.5.1.1.2 ski, Natalie Type T Bcz split off P802.3 glass optical fiber Remedy e: Optical fiber P1 lass optical fiber P1 24L45, P24L49, P Response	P24 P24 General Motor Comment Status D 3dh. In doing this, the P802 r as plastic optical fiber is co HY as specified in Clause 16 P24 P24 Comment Status D Comment S	<i>L</i> 40 s Company 3cz objectives v overed by dh.	# <u>I-30</u> PAR synch	Suggestedf Change To: tra Proposed F PROPC Change Cl 45 Wienckows Comment T When t used. " Suggestedf Change P32L24 P32L24 P32L24	Remedy : transmission nsmission on g esponse DSED ACCEPT to "glass optic SC 45.2.1.15 xi, Natalie ype E alking about the Ob" is not put b Remedy 0b0000 to 000 : Change 0b00 : Change 0b00 : Change 0b00 : Change 0b00 : Change 0b00	n on optical fiber glass optical fiber <i>Response St</i> T IN PRINCIPLE. cal fiber in the au <b>58a.1</b> <i>Comment St</i> te value of combin before this. For a 00 001 to 0001 0010 to 0010 0011 to 0011	for automotive for automotive atus <b>W</b> tomotive env P <b>32</b> General Moto tatus <b>D</b> nations of bit an example, s	ve applications. ive applications. vironment" (See L23 ors Company ts in a register, ju	# [ <u>-36</u> <i>Number writi</i> ust the "01" stream is

Pa **32** Li **23** 

C/ <b>45</b>	SC 45.2.1.158	a.1 P33	L <b>22</b>	# I-121	C/ 45	SC 45.2.3.90.2	P <b>37</b>	L11	# I-40
Dawe, Pie	rs J G	NVIDIA			Wienckows	ski, Natalie	General Mot	ors Company	
Comment	Type ER	Comment Status D		Number writing	Comment	Туре Е С	Comment Status D		Number writing
		-based registers in Clause			Don't u	use "0b" before binary	v bit values.		
		r from the descriptions and and not normal notation.			Suggested	Remedy			
		es. This is a 4-bit field as th			Chang	e: 0b000 to 000			
	no sense anywa			(1.004)	Proposed	Response Re	esponse Status W		
		1.158a BASE-AU PMA/PM ection (1.901.3:0) should be			PROP	OSED ACCEPT.	,		
PMA/F	MD control regist	er (Register 1.900) and 45.	2.1.158.1, Type	selection (1.900.3:0).			<b>D</b>		
Simila	rly, 45.2.3.90.1 O	peration mode (3.2348.15:1 ode (3.518.15:13).	3) should be pre	cisely aligned to	C/ <b>45</b>	SC 45.2.3.91.12	P <b>39</b>	L <b>38</b>	# I-11
		ioue (3.316.13.13).			Rannow, R		Representin	g myself	
Suggested	•	060001 to 0001 06000 to	"hinom ( 000" o	nd an an to motab the	Comment	<i>7</i> <sup>1</sup>	Comment Status D		EEE
base o	locument.	, 0b0001 to 0001, 0b000, to	o binary 000 , a	nd so on to match the	Ambig examp		t termination used thro	ughout the docun	nent. This is just one
Proposed	Response	Response Status W			When	road as one bit 2 22	10.2 indicator both tha	the remote PHV	has the EEE ability and
PROP	OSED ACCEPT.						is enabled. When read		
C/ 45	SC 45.2.3.90.	1 P37	L <b>4</b>	# 1-38	Suggested	Remedy			
Wienckow	ski, Natalie	General Moto	ors Company		Check	all instances and cor	nfirm consistency and r	emove ambiguity	
Comment	,	Comment Status D		Number writing	When	road as a one bit 2 2	349.2 indicates that th	o romoto DUV ha	e the EEE ability and
	use "0b" before bi	nary bit values.					is enabled. When read		S THE EEE ADHILY AND
Suggested	lRemedv				N 4 11 <sup>1</sup> 1				
	e: 0b000 to 000.				•		2	cessary for consi	stency and correctness.
Proposed	Response	Response Status W			Proposed	,	esponse Status W		
•	OSED ACCEPT.					OSED ACCEPT IN P 39 line 18: Substitute	RINCIPLE. "read as one" with "rea	d as a one". Sub	stitute "read as zero"
					with "re	ead as a zero".			
CI <b>45</b>	SC 45.2.3.90.	2 P <b>37</b>	L10	# I-39			"read as one" with "rea "read as zero" with "rea		ove "both".
Wienckow	ski, Natalie	General Moto	ors Company		Page 3	39 line 38: Substitute	"read as one" with "rea	id as a one". Rem	ove "both".
Comment	Type E	Comment Status D		Number writing	Page 3	39 line 39: Substitute	"read as zero" with "re	ad as a zero".	
Don't u	use "0b" before bi	nary bit values.					"read as one" with "rea "read as zero" with "rea		
Suggested	lRemedy				Page 4	10 line 3: Substitute "I	read as one" with "read	l as a one".	
Chang	e: 0b000 to 000				Page 4	10 line 4: Substitute "	read as zero" with "rea	d as a zero".	
	Response	Response Status W							
Proposed									

Pa **39** Li **38** 

C/ <b>45</b>	SC 45.5.3.6	P <b>43</b>	L <b>25</b>	# I-41	C/ 105	SC 105.1.3	P <b>48</b>	L <b>40</b>	# <mark>I-48</mark>
Vienckow	ski, Natalie	General Moto	rs Company		Wienckow	ski, Natalie	General Moto	rs Company	
Comment	Type E	Comment Status D		Number writing	Comment	Туре Т	Comment Status X		PAR s
Don't	use "0b" before bi	nary bit values.					2.3dh. In doing this, the P802		were modified to
Suggested	dRemedy						iber as plastic optical fiber is c	overed by an.	
Chang	ge: 0b000 to 000				Suggested	-	• • • • • • • • • • • • • • • • • • •		
Proposed	Response	Response Status W					for use in automotive applicati r for use in automotive applica		
PROF	OSED ACCEPT.				Proposed	•	Response Status W		
C/ <b>45</b>	SC 45.5.3.6	P <b>43</b>	L <b>35</b>	# I-42	-		T IN PRINCIPLE. cal fiber in the automotive env	ironment" (See	#i-125)
	ski, Natalie <i>Type</i> <b>E</b>	General Moto Comment Status D	rs Company	Number writing	C/ 105	SC 105.1.3	P <b>50</b>	L12	# 1-47
	use "0b" before bi			Number writing	Wienckow	ski. Natalie	General Moto	rs Company	
		hary bit values.			Comment	,	Comment Status D	is company	PAR s
00	dRemedy ge: 0b000 to 000					51	2.3dh. In doing this, the P802	2.3cz objectives	
							iber as plastic optical fiber is c		
	Response OSED ACCEPT.	Response Status W			Suggested	Remedy			
C/ 105	SC 105.1.3	P <b>48</b>	L39	# I-125			for use in automotive applicati r for use in automotive applica		
			233	" I-125	Proposed	Response	Response Status W		
Dawe, Pie Comment		NVIDIA Comment Status D		PAR synch			T IN PRINCIPLE.		
	51	aned to the project title in the	PAR. which say		Chang	je to "glass opti	cal fiber in the automotive env	ironment" (See	#I-125)
		t". See similar comments to			C/ 125	SC 125.1.3	P <b>54</b>	L <b>26</b>	# I-126
Suggested	dRemedy				Dawe, Pie	rs J G	NVIDIA		
		motive applications" to "for a			Comment	Туре Е	Comment Status X		PAR s
	nment" or possibly nment".	y "for use in the automotive	environment" or	just "in the automotive			ligned to the project title in the ent". See similar comments to		
,	Response	Response Status W			Suggested	Remedy			
-	POSED ACCEPT I ge to "glass optica	IN PRINCIPLE. I fiber in the automotive envi	ironment" (See #	i-120, #i-48)	enviro		tomotive applications" to "for a bibly "for use in the automotive		
					Proposed	Response	Response Status W		
							T IN PRINCIPLE. cal fiber in the automotive env	ironment" (See	#i-125)

Pa **54** Li **26** 

C/ 125	SC 125.1.3	P <b>54</b>	L <b>26</b>	<b>#</b> I-49	C/ 125	SC 125.1.4	P <b>56</b>	L <b>18</b>	# I-52
Wienckows	ski, Natalie	General Motor	s Company		Wienckows	ski, Natalie	General Mo	tors Company	
Comment 7	Туре Т	Comment Status X		PAR synch	Comment	Туре Т	Comment Status X		PAR synch
		.3dh. In doing this, the P802 er as plastic optical fiber is co		were modified to			2.3dh. In doing this, the P8 ber as plastic optical fiber is		were modified to
Suggested	lRemedy				Suggested	Remedy			
		r use in automotive application for use in automotive application					or use in automotive application for use in automotive application		
Proposed I	Response	Response Status W			Proposed I	Response	Response Status W		
-	OSED ACCEPT I le to "glass optica	IN PRINCIPLE. al fiber in the automotive envir	ronment" (See #	ŧi-125)	-		IN PRINCIPLE.	nvironment" (See	#i-125)
C/ 125	SC 125.1.3	P <b>54</b>	L <b>32</b>	# I-50	C/ 125	SC 125.3	P <b>57</b>	L <b>40</b>	# I-127
Wienckows	ski, Natalie	General Motor	s Company		Dawe, Pier	s J G	NVIDIA		
Comment 7	Туре Т	Comment Status X		PAR synch	Comment	Туре Е	Comment Status D		Simplification of lists
		.3dh. In doing this, the P802. er as plastic optical fiber is co		were modified to	As bit t simplifi		_quantum are are based on	MAC bits, the tal	ole footnotes can be
specity	y glass optical libe		stored by am						
Suggested	•				Suggested	Remedy			
Suggested Change	IRemedy le: optical fiber for	r use in automotive applicatio or use in automotive applicatio	ons.		Change	e "2.5GBASE-T et" twice; chang	, 2.5GBASE-X, 2.5GBASE- e "5GBASE-T, 5GBASE-R,		
Suggested Chang To: gla Proposed I	IRemedy le: optical fiber for ass optical fiber for Response	r use in automotive applicatio or use in automotive applicat <i>Response Status</i> <b>W</b>	ons.		Chang Ethern Gigabit	e "2.5GBASE-T et" twice; chang t Ethernet" twice	je "5GBASE-T, 5GBASE-R, e.		
Suggested Chang To: gla Proposed F PROPO	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I	r use in automotive applicatio or use in automotive applicat <i>Response Status</i> <b>W</b>	ons. ions.	ŧi-125)	Chang Ethern Gigabit Proposed F	e "2.5GBASE-T et" twice; chang t Ethernet" twice	e "5GBASE-T, 5GBASE-R, e. Response Status W		
Suggested Chang To: gla Proposed F PROPO Chang	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I	r use in automotive applicatio or use in automotive applicat <i>Response Status</i> <b>W</b> IN PRINCIPLE.	ons. ions.	≠i-125) #_ <mark>I-51</mark> ∎	Chang Ethern Gigabit Proposed F	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response	e "5GBASE-T, 5GBASE-R, e. Response Status W		
Suggested Chang To: gla Proposed I PROPO Chang Cl 125	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I le to "glass optica	r use in automotive applicatio or use in automotive applicat <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive envir	ons. ions. ronment" (See # <i>L</i> 14		Chang Ethern Gigabit Proposed F PROPO	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3	e "5GBASE-T, 5GBASE-R, e. <i>Response Status</i> <b>W</b>	5ĠBASE-T1, an	d 5GBASE-AU" to "5
Suggested Chang To: gla Proposed I PROPO Chang C/ 125	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I le to "glass optical SC <b>125.1.4</b> ski, Natalie	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <b>P56</b>	ons. ions. ronment" (See # <i>L</i> 14		Chang Ethern Gigabit Proposed I PROPO	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G	e "5GBASE-T, 5GBASE-R, e. <i>Response Status</i> W  <i>P</i> <b>59</b>	5ĠBASE-T1, an	d 5GBASE-AU" to "5
Suggested Chang To: gla Proposed I PROP( Chang Cl 125 Wienckows Comment P802.3	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I le to "glass optical SC 125.1.4 ski, Natalie Type T 3cz split off P802.	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <b>P56</b> General Motor	ons. ions. ronment" (See # <i>L</i> 14 rs Company .3cz objectives v	# [-51 PAR synch	Chang Ethern Gigabit Proposed I PROPO C/ 131 Dawe, Pier Comment This co	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G Type E build be better al	e "5GBASE-T, 5GBASE-R, e. <i>Response Status</i> W - <i>P</i> <b>59</b> NVIDIA	5GBASE-T1, an	d 5GBASE-AU" to "5 # <u>-128</u> PAR synch ays "for application in the
Suggested Chang To: gla Proposed I PROPO Chang Cl 125 Wienckows Comment T P802.3 specify	IRemedy le: optical fiber for ass optical fiber for Response OSED ACCEPT I le to "glass optical SC 125.1.4 ski, Natalie Type T 3cz split off P802. y glass optical fibe	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <i>P</i> 56 General Motor <i>Comment Status</i> <b>X</b> .3dh. In doing this, the P802.	ons. ions. ronment" (See # <i>L</i> 14 rs Company .3cz objectives v	# [-51 PAR synch	Chang Ethern Gigabit Proposed I PROPO C/ 131 Dawe, Pier Comment This co	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G Type E puld be better al btive environme	e "5GBASE-T, 5GBASE-R, e. Response Status W P59 NVIDIA Comment Status X igned to the project title in th	5GBASE-T1, an	d 5GBASE-AU" to "5 # <u>-128</u> PAR synch ays "for application in the
Suggested Chang To: gla Proposed I PROPO Chang Cl 125 Wienckows Comment T P802.3 specify Suggested Chang	IRemedy IRemedy IResponse OSED ACCEPT I De to "glass optical SC 125.1.4 ski, Natalie Type T 3cz split off P802. y glass optical fiber IRemedy IRESPONDED	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <i>P</i> 56 General Motor <i>Comment Status</i> <b>X</b> .3dh. In doing this, the P802.	ons. ions. ronment" (See # <i>L</i> 14 rs Company .3cz objectives v overed by dh.	# [-51 PAR synch	Chang Ethern Gigabit Proposed I PROPO Cl 131 Dawe, Pier Comment This cc automo Suggested Chang enviror	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G Type E build be better all btive environme Remedy e "for use in auto ment" or possil	e "5GBASE-T, 5GBASE-R, e. Response Status W P59 NVIDIA Comment Status X igned to the project title in th	5GBASE-T1, and L7 he PAR, which sa to other "introduc r application in th	d 5GBASE-AU" to "5 # [-128 PAR synch ays "for application in the tion to" clauses. e automotive
Suggested Chang To: gla Proposed I PROPO Chang Cl 125 Wienckows Comment T P802.3 specify Suggested Chang To: gla Proposed I	IRemedy IRemedy IRe optical fiber for ass optical fiber for Response OSED ACCEPT I Ie to "glass optical SC 125.1.4 ski, Natalie Type T 3cz split off P802. y glass optical fiber IRemedy IRemedy IRe optical fiber for ass optical fiber for ass optical fiber for Response	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <i>P</i> 56 General Motor <i>Comment Status</i> <b>X</b> .3dh. In doing this, the P802 er as plastic optical fiber is control or use in automotive application or use in automotive application <i>Response Status</i> <b>W</b>	ons. ions. ronment" (See # <i>L</i> 14 rs Company .3cz objectives v overed by dh.	# [-51 PAR synch	Chang Ethern Gigabii Proposed I PROPO Cl 131 Dawe, Pier Comment This co automo Suggested Chang enviror enviror	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G Type E build be better al otive environme Remedy e "for use in aut ment" or possil ment".	e "5GBASE-T, 5GBASE-R, e. Response Status W P59 NVIDIA Comment Status X igned to the project title in th nt". See similar comments tomotive applications" to "fo	5GBASE-T1, and L7 he PAR, which sa to other "introduc r application in th	d 5GBASE-AU" to "5 # [-128 PAR synch ays "for application in the tion to" clauses. e automotive
Suggested Chang To: gla Proposed I PROPO Chang Cl 125 Wienckows Comment T P802.3 specify Suggested Chang To: gla Proposed I PROPO	IRemedy IRemedy IResponse OSED ACCEPT I Is to "glass optical SC 125.1.4 ski, Natalie Type T 3cz split off P802. y glass optical fiber IRemedy IRemedy IResponse OSED ACCEPT I	r use in automotive application or use in automotive application <i>Response Status</i> <b>W</b> IN PRINCIPLE. al fiber in the automotive environ <i>P</i> 56 General Motor <i>Comment Status</i> <b>X</b> .3dh. In doing this, the P802 er as plastic optical fiber is control or use in automotive application or use in automotive application <i>Response Status</i> <b>W</b>	ons. ions. ronment" (See # <i>L</i> 14 rs Company .3cz objectives v overed by dh.	# <u>I-51</u> PAR synch were modified to	Chang Ethern Gigabit Proposed I PROPO Cl 131 Dawe, Pier Comment This co automo Suggested Chang enviror enviror Proposed I	e "2.5GBASE-T et" twice; chang t Ethernet" twice Response OSED ACCEPT SC 131.1.3 s J G Type E build be better al otive environme Remedy e "for use in aut ment" or possil ment". Response	e "5GBASE-T, 5GBASE-R, e. Response Status W - P59 NVIDIA Comment Status X igned to the project title in th nt". See similar comments	5GBASE-T1, and L7 he PAR, which sa to other "introduc r application in th	d 5GBASE-AU" to "5 # [-128 PAR synch ays "for application in the tion to" clauses. e automotive

Pa **59** Li **7** 

C/ 131 SC 131.1.3	P <b>59</b>	L <b>7</b>	# 1-53	C/ 131	SC 131.4	P <b>60</b>	L <b>34</b>	# 1-131
Wienckowski. Natalie	General Moto	rs Company		Dawe. Pie	rs J G	NVIDIA		
Comment Type T	Comment Status X		PAR synch	Comment	Type TR	Comment Status D	50G	BASE-AU delay increas
specify glass optical fibe SuggestedRemedy Change: optical fiber for	3dh. In doing this, the P802 er as plastic optical fiber is c use in automotive application or use in automotive applica <i>Response Status</i> <b>W</b>	overed by dh. ons.	vere modified to	highes the lov At 250 with a SR P0	st rates, this is r west rates, it co G, this is 450.56 similar FEC. A CS and FEC, ag	s 11,264 BT or 2.2 FEC block not reasonable for a range of i uld be tightened but this may ns which is 40% of the allow t 50G, this is 225.28 ns which ain with a similar FEC. In bor nose FECs alone.	mplementations not be necessar ance for 25GBA n is 30% of the a	and not necessary. At y. SE-SR PCS and FEC llowance for 50GBASE-
PROPOSED ACCEPT I	,	ironment" (See #	i-125)	The de function proces	elay should allo ons (partially sca ss and FEC cod	w for an FEC block (scales wi ale, much smaller) and FEC p le, not MAC rate. This spec is	processing which asking for an a	n relates to silicon lggressive design at 50G
C/ 131 SC 131.1.3	P <b>59</b>	L <b>21</b>	# I-54	Suggested		y; the delay is significantly les	ss than at 25G o	r slower anyway.
Wienckowski, Natalie Comment Type <b>T</b>	General Moto Comment Status X	rs Company	PAR synch	Increa	-	Y delay for 50GBASE_AU from	m 11264 BT, 22	PQ, 225.28 ns to 14848
	3dh. In doing this, the P802 er as plastic optical fiber is c		vere modified to	Proposed	Response	Response Status W		
SuggestedRemedy				-		T IN PRINCIPLE. and Table 131-4 accordingly		
Change: optical fiber for	use in automotive application use in automotive application			C/ 131	SC 131.4	P60	L <b>38</b>	# I-132
Proposed Response PROPOSED ACCEPT I Change to "class optical	Response Status W N PRINCIPLE. I fiber in the automotive env	ironment" (See #	i-125)	Dawe, Pie Comment	Туре Т	NVIDIA Comment Status <b>D</b>		Simplification of list
C/ 131 SC 131.1.3	P59	L <b>21</b>	# I-129	they w	ould be the sar	e_quantum are the same for sine for sine for sine for any other 50G Etherne		
Dawe, Piers J G	NVIDIA			Suggester	-	" to "50 Gigabit Ethernet" (or	"50GBASE") tw	ice
	Comment Status X SE-AU after 50GBASE-KR" n. These AU PHYs are for 4		<i>PAR synch</i> R is for 3 m,	Proposed	Response	Response Status W		
	motive applications" to "for a					note a: Change "50GBASE-R note a: Change "50GBASE-R		
#i-130?) The Editor assumes fror "This could be better alig	Response Status W N PRINCIPLE. address a different issue in m the suggested remedy that gned to the project title in th ment". See similar comment	at the real commo	ent is:					
Change to "glass optical	I fiber in the automotive env	ironment" (See #	i-125)					
TYPE: TR/technical requirec	ER/editorial required GR/	general required	T/technical E/editorial G/o	eneral		Pa 6	n	Page 8 of 25

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

Pa **60** Li **38** 

C/ 166	SC	166.1	P <b>61</b>	L <b>37</b>	#	I-135		C/ 166	SC 16	6.1.4	
Dawe, Pie	rs J G		NVIDIA					Dawe, Pier	rs J G		
Comment	Туре	Е	Comment Status D				EEE	Comment	Туре -	т	С
accor 50GB	ding to ASE-KI	78.1.4 is n R, 100GBA	ession that this PHY can be p ot the case. Compare the cle ASE-KR2, and 200GBASE-KI	earer text in 13 R4 PHYs with t	7.1: ne optiona	al Energy	/-	multipl	d not call a liers. I thi nchronou	ink the p	oint
			) fast wake capability may en					Suggested	IRemedy		
		is not sup	periods of low link utilization ported.	(see Clause 7	s). The de	ep sieep	)	Chang	e to the te	erm whi	ch is
Suggeste	dReme	dy .						Proposed	Response	Э	Re
to "Th	is claus ility." A	e also spe dd: "The d	so specifies an optional Energe cifies an optional Energy-Effi deep sleep mode of EEE is no Response Status W	cient Ethernet			oility."	"Additi	OSED AC ve scram ver, adject ed.	bler" is a	
PROF	OSED	ACCEPT.						Page 6	64 line 11		
C/ 166	SC	166.1.3	P <b>62</b>	L <b>43</b>	#	I-139		Remov	ve "with a	n additiv	/e sc
Dawe, Pie	rs J G		NVIDIA					Page (	64 line 14		
Comment	Туре	т	Comment Status D			Full	l duplex		56 line 22		
"Clau	se 4 Me	dia Acces	s Control (MAC) layer": call it	IEEE 802.3 M	AC sublay	ver? As	these	0	75 line 36		
PHYs	are full	duplex, is	the Annex 4A simplified full of	duplex MAC als	o suitable	<del>?</del> ?			34 line 49		
Suggeste	dReme	dy						0	38 line 31 106 line 3		
			ect one Clause 4 Media Acce 02.3 Media Access Control (I					Page 7	107 line 2 147 line 2	2	
4A) to	the me	edium."						-			
								_	ve "additiv		

PROPOSED ACCEPT.

P**64** L11 # I-142 NVIDIA Comment Status D Scrambler naming

bler "additive" because they rely on XOR gates which are nt is that these are synchronous or side-stream scramblers, not ers.

is typically used in the base document.

Response Status W

o used in other parts of the base document. For example C/149. e does not add information to the specification so it may be

crambler"

Pa 64 Li 11

C/ 166	SC 166.1.4	P <b>64</b>	L18	# I-58	C/ 166	SC 16	6.2	P <b>66</b>	L1	# I-175
Vienckowski,	, Natalie	General Motor	s Company		Mcclellan,	Brett		Marvell Sem	iconductor, Inc.	
Comment Typ	be TR	Comment Status D		State diagram	Comment	Туре	TR	Comment Status D		Interfaces definition
	on and, if it is co	e sense to say "PHD informa prrect, then it is fed to state o			sublay	ers.		ks a definition of service se interfaces, this specif		
SuggestedRe	emedy				Suggested	Remedy				
checked To: PHD	information rel	on reliability is ation and, if it is correct, then liability is checked by CRC c 5, Figure 166-26, and Figure	alculation, hdr_o		5GBAS interfac	SE-AU, 1 ces.	0GBASE-/	6.2 2.5GBASE-AU, AU, 25GBASE-AU, and \$	50GBASE-AU serv	ice primitives and
Proposed Re		Response Status W			Proposed	,		Response Status W		
•	SED ACCEPT I				PROP	USED A	CCEPT IN	PRINCIPLE.		
Change: checked	"PHD informat	ion reliability is ation and, if it is correct, then	it is fed to state	e diagrams."			fication ma and interop	akes use of service inter erability.	faces where neede	d for technical
checked		ation and, if it is correct, it is	used by the PC			er, the th BASE-R o		aragraphs of the subclau	se 166.2.1 can be	changed to mirror
			_	# I-177	Page 6	6 lines 5	to 7.			
Vicclellan, Bre		Marvell Semic	onductor, Inc.		. age a		,			
	no definition for	Comment Status <b>D</b> PMA interfaces to the PCS. bese interfaces, this specification		Interfaces definition	Media or 10G	Independ	dent Interfa	AU, 5GBASE-AU, or 100 ace (XGMII), see Clause Medium Attachment (Pl	46, to the 2.5GBA	
SuggestedRe	emedy				to "The I	CS conv	ico intorfa	ce of 2.5GBASE-AU, 5G	BASE-ALL or 10G	BASE-ALL is the 10
Insert a n interfaces		166.2.1 Technology Depende	ent Interface wit	h definitions for PMA	Gigabi	t Media I	ndepender	nt Interface (XGMII), which AU, or 10GBASE-AU PC	ch is defined in Cla	use 46. The
Proposed Re PROPOS	<i>sponse</i> SED REJECT.	Response Status W						2.5GBASE-AU, 5GBAS ) sublayer."	E-AU, or 10GBAS	E-AU Physical
					Page 6	6 lines 9	to 10,			
	' specification r ness and interc	nakes use of service interfac	es where neede	ed for technical	Ū					
complete		pordonity.					5GBASE-A MII), see C	U PCS couples a Media	Independent Inter	tace for 25 Gb/s
	of a PMA inter able PHY imple	face is not necessary for an ementation.	implementer to	build a compliant and	106, to to	the 25G	BÁSE-AU	PMA sublayer."		
		not specify Autonegotiation, this feature (i.e, Clause 97 a			operat	ion (25Gl	MII), which	service interface is the M is defined in Clause 106 5GMII and couple it to th	6. The 25ĠBASE-A	U PCS provides all
					Page 6	6 lines 1	2 to 13,			
					operat	ion (50Gl	MII), see C	U PCS couples a Media lause PMA sublayer."	a Independent Inter	face for 50 Gb/s
TYPE: TR/ter	chnical required	ER/editorial required GR/gotteched A/accepted R/reject	general required	T/technical E/editorial G	/general			Pa 6	6	Page 10 of 25

SORT ORDER: Page, Line

to: "The 50GBASE-AU PCS service interface is the Media Independent Interface for 50 Gb/s operation (50GMII), which is defined in Clause 132. The 50GBASE-AU PCS provides all services required by the 50GMII and couple it to the 50GBASE-AU PMA sublayer."

C/ 166	SC 1	66.2	P <b>66</b>	L1	# <mark>I-176</mark>
Mcclellan,	Brett		Marvell Semic	onductor, Inc.	
Comment	Туре	TR	Comment Status D		Interfaces definition
which		d through	or Technology Dependent Inte hout Clause 166 without indica s to.	_	—

Without a definition of these interfaces, this specification is technically incomplete.

#### SuggestedRemedy

Insert a new subclause 166.2.1 Technology Dependent Interface with definitions for link\_control and link\_status

Proposed Response Response Status W

PROPOSED REJECT.

This PHY specification makes use of service interfaces where needed for technical completeness and interoperability.

Autonegotiation, and therefore primitives specified in other clauses to support this feature (i.e, Clause 97 and 98) are not needed.

link\_control and link status are mapped in subclause 166.13 (Table 166-22) to MDIO register bits.

C/ 166	SC 166.	2.1	P <b>67</b>	L19	# <b>I</b> -44
Wienckow	ski, Natalie		General Moto	rs Company	
Comment	Туре ТГ	Commer	nt Status D		Reset max time
Objec power	ive #4: "De	ine optional start to a state capab	up procedure wh	ich enables the	n't be guaranteed that time from valid data to be less than
Suggested	lRemedy				
whene a)Pow b)The PCS F state of referent The co setting Add a	ever one of the receipt of a Reset sets particular set on the receipt of a Reset sets particular set of the receipt of a receipt of a receipt of a receipt of the receipt o	he following cond 65.2.2.8.2). request for reset cs_reset = TRUE te the open-ende s do not explicitly anagement inter 5.	from the manag while any of the d pcs_reset brar y show the PCS	ement entity. above reset conch upon execut Reset function. tored to operation	nall be executed anditions hold true. All tion of PCS Reset. The on within 10 ms from the
Proposed	Response	Response	e Status W		
PROP	OSED ACC	EPT IN PRINCIF	PLE.		
	e shall stat liagram):	ment (as propos	ed in #I-45) in pa	age 98 line 51 ( <sup>-</sup>	166.3.4.4 Link monitor
"For a	communica	tion system com	posed of two cor	nected link par	tners as shown in Figure

"For a communication system composed of two connected link partners as shown in Figure 166-2, the time measured from the last unassertion of pma\_reset or pcs\_reset to OFF on either link partner, to the assertion of the link\_status variable to OK on either link partner, shall be less than 25 ms."

Add PICS accordingly.

Page 82 line 37 already defines pcs\_reset variable used in the state diagrams, and it covers conditions a) and b).

Pa **67** Li **19** 

C/ 166	SC 166.2.2.4	P <b>71</b>	L <b>41</b>	# I-148	C/ 166	SC 166.2.2.4	P <b>71</b>	L <b>45</b>	# I-150
Dawe, Piers	JG	NVIDIA			Dawe, Pie	rs J G	NVIDIA		
Comment Ty	vpe E	Comment Status D	FEC	description improvement	Comment	Туре Т	Comment Status D	FEC	description improvemen
		n need to be defined; this is kt for alpha, the use of j defir			Please	e advertise the inf	formation provided.		
		kt for alpha, the use of J defir	ies itsell, but the	ere's nothing for x.	Suggested	lRemedy			
SuggestedRe Say what	it x, the dummy	variable, is.			Cross- here.	-reference Table	166-3 from here, or move th	ne table and its ir	ntroductory sentence to
	SED ACCEPT	Response Status W IN PRINCIPLE.			-	OSED ACCEPT	Response Status <b>W</b> IN PRINCIPLE. its introductory sentence to	page 71 line 45.	
Page 71	line 44,				C/ 166	SC 166.2.2.4	P <b>72</b>	L <b>31</b>	# I-151
		66–1), , is a primitive eleme	nt of the finite fie	eld defined by the	Dawe, Pier	rs J G	NVIDIA		
0x409 = 2 to	polynomial x10 + x3 + 1."				<i>Comment</i> GF ad	<i>Type</i> <b>T</b> d, GF multiply	Comment Status D	FEC	description improvemen
		the RS-FEC encoder, (italic)			Suggested	Remedy			
		of any polynomial in mathem to specify the parity calculat			00	e define or give a	reference		
operatior encoder. GF(2^m)	ns will be used . In Equation (1 ), therefore (gre	to specify the parity calculat 166–1), (greek) alpha, is a pi eek) alpha is the root of a pri	ion carried out b rimitive element	y the RS-FEC of the finite Galois field	Please Proposed	e define or give a <i>Response</i> POSED REJECT.	reference Response Status W		
operation encoder. GF(2^m) The prim C/ 166 Dawe, Piers v	ns will be used . In Equation (1 ), therefore (gre hitive polynomia SC <b>166.2.2.4</b> J G	to specify the parity calculat 166–1), (greek) alpha, is a pi eek) alpha is the root of a pri al is x^10 +x^3 +1." <i>P</i> <b>71</b> NVIDIA	ion carried out b rimitive element mitive polynomia L44	wy the RS-FEC of the finite Galois field al of degree m in GF(2). # [-149	Please Proposed PROP GF Mu codes	Response OSED REJECT. ultiply and GF Add			s defining Reed-Solomon
operation encoder. GF(2^m) The prim C/ 166 Dawe, Piers & Comment Ty,	ns will be used In Equation (1 ), therefore (gre hitive polynomia SC 166.2.2.4 J G vpe <b>T</b>	to specify the parity calculat 166–1), (greek) alpha, is a pl eek) alpha is the root of a pri al is x^10 +x^3 +1." <i>P</i> <b>71</b> NVIDIA <i>Comment Status</i> <b>D</b>	ion carried out b rimitive element mitive polynomia L44 FEC	by the RS-FEC of the finite Galois field al of degree m in GF(2).	Please Proposed PROP GF Mu codes	Response OSED REJECT. ultiply and GF Add	Response Status W		e defining Reed-Solomon # [ <u>-152</u>
operation encoder. GF(2^m) The prim Cl 166 Dawe, Piers & Comment Tyj "alpha is SuggestedRe	ns will be used In Equation (1), therefore (gre nitive polynomia SC 166.2.2.4 J G ype T s a primitive element emedy	to specify the parity calculat 166–1), (greek) alpha, is a pi eek) alpha is the root of a pri al is x^10 +x^3 +1." <i>P</i> <b>71</b> NVIDIA	ion carried out b rimitive element mitive polynomia L44 FEC	wy the RS-FEC of the finite Galois field al of degree m in GF(2). # [-149	Please Proposed PROP GF Mu codes See Fi C/ 166 Dawe, Piel Comment	Response POSED REJECT. ultiply and GF Add igures 76-11, 91-3 SC <b>166.2.2.4</b> rs J G Type <b>E</b>	Response Status W d are already used in all 802 5, 97-8, 113-13, 119-9, and P <b>72</b> NVIDIA Comment Status <b>D</b>	149-9. L <b>54</b>	# [ <mark>I-152</mark> Draft layou
operation encoder. GF(2^m) The prim C/ 166 Dawe, Piers of Comment Ty alpha is SuggestedRe Please e	ns will be used In Equation (1), therefore (gre nitive polynomia SC 166.2.2.4 J G upe T s a primitive element emedy explain. And se	to specify the parity calculat 166–1), (greek) alpha, is a privel ek) alpha is the root of a privel al is x^10 +x^3 +1." <b>P71</b> NVIDIA <i>Comment Status</i> <b>D</b> ment of the finite field" - mea	ion carried out b rimitive element mitive polynomia L44 FEC	wy the RS-FEC of the finite Galois field al of degree m in GF(2). # [-149	Please Proposed PROP GF Mu codes See Fi C/ 166 Dawe, Piel Comment	Response POSED REJECT. ultiply and GF Add igures 76-11, 91-3 SC <b>166.2.2.4</b> rs J G Type <b>E</b>	Response Status <b>W</b> d are already used in all 802 5, 97-8, 113-13, 119-9, and <i>P</i> <b>72</b> NVIDIA	149-9. L <b>54</b>	# [ <mark>I-152</mark> Draft layou
operation encoder. GF(2^m) The prim Cl 166 Dawe, Piers Comment Ty "alpha is SuggestedRe Please en Proposed Re	ns will be used In Equation (1), therefore (gre- nitive polynomia SC 166.2.2.4 J G upe T a a primitive element explain. And se esponse SED ACCEPT	to specify the parity calculat 166–1), (greek) alpha, is a privation eek) alpha is the root of a privation al is x^10 +x^3 +1." <b>P71</b> NVIDIA <i>Comment Status</i> <b>D</b> ment of the finite field" - mean ee next comment	ion carried out b rimitive element mitive polynomia L44 FEC	wy the RS-FEC of the finite Galois field al of degree m in GF(2). # [-149	Please Proposed PROP GF Mu codes See Fi C/ 166 Dawe, Pier Comment Two-co Suggested	Response POSED REJECT. ultiply and GF Add igures 76-11, 91- SC 166.2.2.4 rs J G Type E olumn table incor iRemedy	Response Status W d are already used in all 802 5, 97-8, 113-13, 119-9, and P <b>72</b> NVIDIA Comment Status <b>D</b>	149-9. L <b>54</b>	# [ <mark>I-152</mark> Draft layou
operation encoder. GF(2^m) The prim Cl 166 Dawe, Piers Comment Ty "alpha is SuggestedRe Please e Proposed Re PROPOS	ns will be used In Equation (1), therefore (gre- nitive polynomia SC 166.2.2.4 J G upe T a a primitive element explain. And se esponse SED ACCEPT	to specify the parity calculat 166–1), (greek) alpha, is a privation eek) alpha is the root of a privation al is x^10 +x^3 +1." <b>P71</b> NVIDIA <i>Comment Status</i> <b>D</b> ment of the finite field" - meat the next comment <i>Response Status</i> <b>W</b>	ion carried out b rimitive element mitive polynomia L44 FEC	wy the RS-FEC of the finite Galois field al of degree m in GF(2). # [-149	Please Proposed PROP GF Mu codes See Fi C/ 166 Dawe, Pier Comment Two-co Suggested	Response POSED REJECT. ultiply and GF Add igures 76-11, 91-4 SC <b>166.2.2.4</b> rs J G Type <b>E</b> olumn table incor <i>Remedy</i> e table so that it is	Response Status W d are already used in all 802 5, 97-8, 113-13, 119-9, and P72 NVIDIA Comment Status D oveniently split, last line of fi	149-9. L <b>54</b>	# [ <mark>I-152</mark> Draft layou

Pa **72** Li **54** 

C/ 166	SC 166.2.2.5	P <b>73</b>	L19	# I-154	C/ 166	SC 166.2.2.7	P <b>77</b>	L <b>1</b>	# I-156
Dawe, Pie	rs J G	NVIDIA			Dawe, Pier	s J G	NVIDIA		
Comment	Туре Т	Comment Status D		Scrambler naming	Comment	Туре Т	Comment Status D		PCS subclause layou
		s? The 7000-page base doe ary" but only Clause 115 use		s many scramblers, I	There anothe		tions of 64B/65B encoding i	n the base sta	andard; I doubt we need
Suggested	dRemedy				Suggested	Remedy			
		802.3, change "binary scram mbler" throughout.	bler" to "scram	bler" and "binary			le one and refer to it, remov / insertion and deletion rules	0	is material except the
Proposed	Response	Response Status W			Proposed	Response	Response Status W		
C/ 166	SC 166.2.2.5	P <b>73</b>	L <b>21</b>	# I-153	This po The re	sulting text is clea	IN PRINCIPLE. been discused in the WG ba arer than using reference to approach to get all relevant	external claus	
Dawe, Pie		NVIDIA					ip with other clauses can be		
Comment	Туре Е	Comment Status D		Number writing			0.4.4		
clarity numbe	, follow the IEEE E	the 802.3 editorial guidelines Editorial Style Manual: Use s Ireds of thousands (e.g., 62 (	paces instead o	of commas between	"NOTE 149-8.	'	is the same as Figure 55-9	, Figure 113-9	), Figure 126-8, and Figure
Suggested						OTE in Figure 16			
00	ge 195 840 to 1958	340, here, at line 38, and els	wehre in runnin	g text to improve	"NOTE	: ⊢ıgure 166-14	is the same as Figure 113-	10"	
Proposed	Response	Response Status W							

PROPOSED ACCEPT.

Pa **77** Li **1** 

C/ 166 SC 166.2.2.7.3 P80 L4 # 1-157	C/ 166 SC 166.2.2.8.2 P82 L40 # 1-159
awe, Piers J G NVIDIA	Dawe, Piers J G NVIDIA
comment Type E Comment Status D Table combinat	on Comment Type T Comment Status D Low pow
The two 65-bit block format tables can be combined for easier reading and understanding.	"low-power mode" is mentioned here and nowhere else, so not defined. What mode is
uggestedRemedy	this? Is this the wrong name? Is "a low power state" in 166.6.1.3.3 related?
Make a single table with table footnotes identifying the five(?) rows that apply to 50G or all but 50G.	SuggestedRemedy Please clarify
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE.
This point has already been discused in the draft development and WG balloting.	Change "low-power mode" to
Separate tables for 50GBASE-U reinforce the differences by allowing a separate definition for 50GBASE-U in the text (Page 77 line 51 and 54) and avoid the use of definition	"Low Power = 1 (see Table 166-22)."
statements in the footnotes.	Cl 166 SC 166.2.2.8.3 P83 L20 # 1-68
However, the relationship with other clauses can be highlighted using NOTEs in the Figure	s. Wienckowski, Natalie General Motors Company Comment Type E Comment Status D Standard Style Manu
Add NOTE in Figure 166-14:	The first letter of the items a)-c) under "C" should be capitalized.
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu	
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8."	e contraction of the second
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu	e SuggestedRemedy Capitalize "Eight", "One", and "Two". Proposed Response Response Status W
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8." Add NOTE in Figure 166-15: "NOTE Figure 166-14 is the same as Figure 113-10"	e SuggestedRemedy Capitalize "Eight", "One", and "Two". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed.
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8." Add NOTE in Figure 166-15: "NOTE Figure 166-14 is the same as Figure 113-10"	e SuggestedRemedy Capitalize "Eight", "One", and "Two". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         2/ 166       SC 166.2.2.7.4         P80       L4         Pawe, Piers J G       NVIDIA	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> </ul>
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         C/ 166       SC 166.2.2.7.4       P80       L4       # [-158]         Dawe, Piers J G       NVIDIA	e SuggestedRemedy Capitalize "Eight", "One", and "Two". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figu 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         C/ 166       SC 166.2.2.7.4       P80       L4       #         Dawe, Piers J G       NVIDIA         Comment Type       E       Comment Status X       Table combinat	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be</li> </ul>
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figure 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         C/       166       SC 166.2.2.7.4       P80       L4       # [-158]         Dawe, Piers J G       NVIDIA         Comment Type       E       Comment Status X       Table combinat         The two control code tables should be combined for easier reading and understanding.	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be lower case:</li> </ul>
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figure 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         C/       166       SC 166.2.2.7.4       P80       L4       #         C/       166       SC 166.2.2.7.4       P80       L4       #       [-158]         Dawe, Piers J G       NVIDIA         Comment Type       E       Comment Status X       Table combinat         The two control code tables should be combined for easier reading and understanding.       SuggestedRemedy	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be lower case:</li> <li>Page 83 line 35 Change "Eight" to "eight"</li> </ul>
<ul> <li>"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figure 149-8."</li> <li>Add NOTE in Figure 166-15: "NOTE Figure 166-14 is the same as Figure 113-10"</li> <li>C/ 166 SC 166.2.2.7.4 P80 L4 # [-158]</li> <li>Dawe, Piers J G NVIDIA</li> <li>Comment Type E Comment Status X Table combinate The two control code tables should be combined for easier reading and understanding.</li> <li>SuggestedRemedy</li> <li>Make a single 5-column table with columns for 2.5, 5, 10, 25G PCS and for 50G PCS.</li> </ul>	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be lower case: Page 83 line 35</li> </ul>
"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figure 149-8."         Add NOTE in Figure 166-15:         "NOTE Figure 166-14 is the same as Figure 113-10"         C/       166       SC 166.2.2.7.4       P80       L4       #       [-158]         Dawe, Piers J G       NVIDIA         Comment Type       E       Comment Status X       Table combinat         The two control code tables should be combined for easier reading and understanding.       SuggestedRemedy         Make a single 5-column table with columns for 2.5, 5, 10, 25G PCS and for 50G PCS.       Proposed Response       Response Status W	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be lower case:</li> <li>Page 83 line 35 Change "Eight" to "eight"</li> <li>Page 83 line 36 Change "One" to "one"</li> <li>Page 90 line 37, 38 and 39</li> </ul>
<ul> <li>"NOTE Figure 166-14 is the same as Figure 55-9, Figure 113-9, Figure 126-8, and Figure 149-8."</li> <li>Add NOTE in Figure 166-15: "NOTE Figure 166-14 is the same as Figure 113-10"</li> <li>C/ 166 SC 166.2.2.7.4 P80 L4 #</li></ul>	<ul> <li>SuggestedRemedy Capitalize "Eight", "One", and "Two".</li> <li>Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. After ":" or ";", capitalization is not needed. See examples in 802.3-2022, page 4603, subclause 113.3.6.2.4.</li> <li>However, page 83 lines 35 and 36 and other occurences are not consistent and should be lower case:</li> <li>Page 83 line 35 Change "Eight" to "eight"</li> <li>Page 83 line 36 Change "One" to "one"</li> <li>Page 90 line 37, 38 and 39 Change "A" to "a"</li> </ul>

Pa **83** Li **20** 

C/ 166	SC 166.2.3.3	P86	L13	#	1-69	C/ 166	SC 166.3	P91		47	# 1-160
Vienckowsł		General Motors (	-	#	1-03	Dawe, Pie		r 91 NVIDIA	L	71	# [-100
Comment T	,	Comment Status D	Joinpany	PCS r	eceiver ordering	Comment		Comment Status	)		Standard Style Manua
	d wording			1001	econter erdering			yer gets a clause to itse			
SuggestedF	Remedy					Suggested	dRemedy	, ,			
Change	: The PCS rece	iver ordering shall separate				Start 1	, 166.3 on a new p	age, asfter the PCS sta	ate diagrams.	Simila	arly for 166.6, PMD.
	e PCS receiver s	•				Proposed	Response	Response Status V	v		
Proposed R		Response Status W				-	OSED REJECT				
Change	SED ACCEPT I :: "The PCS receiver ne PCS receiver	N PRINCIPLE. eiver ordering shall separate" ordering block shall separate"				in 202	1 IEEE SA Stan	not follow the commen dards Style Manual g/myproject/Public/myto			al rule, and is not covered
C/ 166	SC 166.2.3.4	P86	L <b>20</b>	#	I-70						
Vienckowsł	ki, Natalie	General Motors (	Company								
Comment T	ype TR	Comment Status D			State diagram						
Data is	not available to a	a state diagram, in this case it i	s available t	o the PMA	۸.						
Change and to the function	SED ACCEPT I The contents the other PCS re that use this ir e contents of the	of the different PHD fields be av ceive			Ū						
C/ 166	SC 166.2.3.7.	1 <i>P</i> 86	L <b>49</b>	#	I-178						
Acclellan, B	Brett	Marvell Semicon	ductor, Inc.								
Comment T	<i>уре</i> Т	Comment Status D		Local	faults reference						
		are different than for XGMII/25 e defined for each interface.	GMII. There	should b	e a reference						
SuggestedF	Remedy										
		ocal Fault ordered set for XGM ocal Fault ordered set for 50GM									
Proposed R PROPC	Response DSED ACCEPT.	Response Status W									

Pa **91** Li **47** 

C/ 166 SC 166.3.1 P94 L1 # 1-45	C/ 166 SC 166.3.4.6.4 P103 L19 # 1-73					
Vienckowski, Natalie General Motors Company	Wienckowski, Natalie General Motors Company					
Comment Type TR Comment Status D Reset max	me Comment Type TR Comment Status D State diagram					
There is no definition of the PMA reset function. Without this, it can't be guaranteed tha Objective #4: "Define optional startup procedure which enables the time from power on=FALSE to a state capable of transmitting and receiving valid data to be less t	A state diagram cannot "wait" for something. It can remain in a state until something happens.					
100ms" can be met.	Suggesteakemeay					
SuggestedRemedy	Change: The state diagram waits for the first estimate of the link margin to be available. To: The state diagram remains in the PMAMON_DISABLE state until the first estimate of					
Insert new subclause before 166.3.1 called PMA Reset Function	the link margin is available.					
The PMA Reset function shall be executed whenever one of the two following conditions occur:	Proposed Response Response Status W					
a)Power for the device containing the PMA has not reached the operating state. b)The receipt of a request for reset from the management entity.	PROPOSED ACCEPT.					
PMA Reset sets pma_reset = ON while any of the above reset conditions hold TRUE. A	Cl 66 SC 66.4.1 P103 L40 # 1-179					
state diagrams take the open-ended pma_reset branch upon execution of PMA Reset. T reference diagrams do not explicitly show the PMA Reset function.	e Mcclellan, Brett Marvell Semiconductor, Inc.					
TheBASE-AU PMA takes no longer than 100 ms to enter the PCS_DATA state after exit	ng Comment Type TR Comment Status D EEE					
from reset or low power mode (see Figure 166-23). Add appropriate PICS (See Clause 149 PR1)	The current definition of PHD.CAP.LPI does not preclude dynamic changing between 1 and 0. I don't believe this could actually work with dynamic changes while the link is up.					
Proposed Response Response Status W	SuggestedRemedy					
PROPOSED ACCEPT IN PRINCIPLE.	on page 103 line 40 insert the following text "The value of PHD.CAP.LPI shall not change."					
Add the following shall statement in page 98 line 51 (166.3.4.4 Link monitor state diagra	) Proposed Response Response Status W PROPOSED REJECT.					
"For a communication system composed of two connected link partners as shown in Fig 166-2, the time measured from the last unassertion of pma_reset or pcs_reset to OFF o either link partner, to the assertion of the link_status variable to OK on either link partner shall be less than 25 ms."	The issue raised by the author of the comment is already covered by the current draft version. In page 69, line 10:					
Add PICS accordingly.						
Page 95 line 42 already defines pma_reset variable used in the state diagrams, and it covers conditions a) and b).	"PHD.CAP.LPI is used by the PHY to advertise that Energy-Efficient Ethernet (EEE) is supported and that it is enabled."					
	In subclause 45.2.3.90.4 it is stated:					
	"Setting bit 3.2348.0 to one shall enable the advertisement of local PHY EEE ability (see 166.4). Setting bit 3.2348.0 to zero shall prevent establishment of EEE operation with the link partner. If the BASE-U PHY does not have EEE ability (bit 3.2349.0 = 0, see 45.2.3.91.14) setting bit 3.2348.0 has no effect. Changes in EEE advertisement enable value shall only take effect after a PMA reset (see 166.3.4.1). Bit 3.2348.0 has no specified default value."					

Pa 103 Li **40** 

C/ 166	SC 166.5.2	P109	L <b>21</b>	# <mark>I-78</mark>	C/ 166 SC 166.6.1	P112	L <b>17</b>	# I-82
Vienckowski	i, Natalie	General Motors	Company		Wienckowski, Natalie	General Moto	ors Company	
Comment Typ	pe E	Comment Status D		Primitive parameters	Comment Type TR	Comment Status D		Primitive paramter
How do y	/ou generate a	pattern toward a primitive? Th	nis doesn't ma	ake sense.	How do you exchange	e signal amplitude?		
SuggestedRe	emedy				SuggestedRemedy			
	PMA generate	erates this pattern towards the s this pattern for the primitive	e primitive			e exchange of signal amplitud nange of signals of different a		
Proposed Re	esponse	Response Status W			Proposed Response	Response Status W		
Page 109 Page 109 Change " (see 166. to "the PMA	9 line 21, 9 line 28, "The PMA gen .6.1.1)." A generates thi	IN PRINCIPLE. erates this pattern towards the s pattern for the service interfa guest primitive (see 166.6.1.1).	ce below the			exchange of signal amplitude ange of communication signa f a signal amplitude"		
C/ 166	SC 166.5.4	P109	L <b>52</b>	# 1-80		-		
Vienckowski	Natalia	General Motors	Company					
Comment Ty	-	Comment Status D	Company	Number writing				
	•	inary bit values.		Number Witting				
SuggestedRe								
Change:	0b101010100	10101010101010101010101010101010101010						
Proposed Re	esponse	Response Status W						
PROPOS	SED ACCEPT.							
C/ 166	SC 166.5.4	P109	L <b>52</b>	# 1-43				
Vienckowski	i, Natalie	General Motors	Company					
Comment Ty	,	Comment Status D		Number writing				
Don't use	, e "0b" before b	inary bit values.		Ŭ				
SuggestedRe	emedv							
00		10101010101101010101010101						
•	010100101010	10101101010101010110110101	).					

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

Pa **112** Li **17** 

Nionokov	SC 166.6.2.2	P <b>114</b>	L <b>21</b>	# I-86	the co	mmunication sig	o nal amplitude given by	the rx_signal parar	meter."
	vski, Natalie	General Motor	s Company		C/ 166	SC 166.6.2.2	P11	4 <i>L</i> 41	# 1-87
Comment		Comment Status D		Primitive paramters	Wienckow	ski, Natalie	Genera	al Motors Company	
What	is an amplitude par	rameter? This doesn't make	e sense.		Comment		Comment Status		Primitive paramter
uggeste	dRemedy						arameter? This does	-	Filmlive paramier
		mit function shall convert th	e amplitude pa	rameter tx_signal				int make sense.	
reque		unction shall convert the am	nlitude of the ty	signal parameter	Suggester	-			
reque					rx sig	ge: into the ampli nal	tude parameter		
Also	on P114L39, PMD1	, and PMD3.			_ 0		of the rx_signal param	neter	
roposed	Response	Response Status W			Also F	PMD3			
PROF	POSED ACCEPT IN	N PRINCIPLE.			Proposed	Response	Response Status	w	
_					PROF	OSED ACCEPT	IN PRINCIPLE.		
0	114 line 21,	and it for a stand a ball a surrout th			See #	i-86.			
	0	smit function shall convert the ervice interface primitive PM		_ 0					
		function shall convert the co							
the tx	signal parameter	requested by the PMD servio							
PMD_	_COMSIGNAL.requ	iest"							
Page	114 line 39,								
0	,	ve function shall convert the	optical signal r	eceived at the MDI into					
	mplitude parameter								
		vice interface primitive PMD							
		unction shall convert the opti	0						
		nplitude given by the rx_sigr COMSIGNAL.indication"	iai parameter o	T the PIVID service					
	151 line 29,								
	ge "The PMD trans erts the amplitude	mit function							
	neter tx_signal into								
	al signal p at TP2								
	ding to Equation (1	,							
	ne PMD transmit fur								
to "Th			by the tx signal						
to "Th conve	erts the communica	tion signal amplitude given t	, = 0	parameter into optical					
to "Th conve signa			, _ 0	parameter into optical					
to "Th conve signa accor	erts the communica I p at TP2 ding to Equation (1		, _ 0						
to "Th conve signa accor Page	erts the communica I p at TP2 ding to Equation (1 151 line 38	66–7)."	, _ 0						
to "Th conve signa accor Page Chan	erts the communica I p at TP2 ding to Equation (1 151 line 38 ge "The PMD receir	66–7)." ve function	, _ 0						
to "Th conve signa accor Page Chan conve	erts the communica I p at TP2 ding to Equation (1 151 line 38	66–7)." ve function	, _ 0						
to "Th conve signa accor Page Chan conve receiv ampli	erts the communica I p at TP2 ding to Equation (1) 151 line 38 ge "The PMD receiverts the optical signation yed at the MDI into tude parameter rx_1	66–7)." ve function al signal."	, _ 0						
to "Th conve signa accor Page Chan conve receiv ampli to "Th	erts the communica I p at TP2 ding to Equation (1) 151 line 38 ge "The PMD receiverts the optical signation yed at the MDI into	66–7)." ve function al signal." ction	, _ 0						

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

Pa 114 Li **41** 

C/ 166 SC 166.6.3.2	P <b>116</b>	L <b>40</b>	# I-107	C/ 166	SC 166.6	.3.2	P <b>117</b>	L16	# <mark>I-163</mark>
Murty, Ramana	Broadcom Inc.			Dawe, Pier	s J G		NVIDIA		
Comment Type TR Co	omment Status D		Wavelength	Comment	Type <b>TR</b>		Comment Status D	500	GBASE-AU extinction rat
Center wavelength (range) is justification for not accepting perezaranda_3cz_01b_0806 should be expanded to allow	other source wavelength 21_vcsel_reliability.pdf, a	ns, such as the are erroneous.	e one given in The wavelength range	range : 50GBA Suggested	and the extra SE-SR has <i>Remedy</i>	accura 3 dB.	should make allowance for acy desired when using P With further study, 3.5 dB	AM4. This has	4 dB at all rates,
SuggestedRemedy				For 50	GBASE-AU,	change	e 4 dB to 3 dB.		
Expand the center waveleng	th range to 840 - 990 nm			Proposed I	Response	I	Response Status W		
roposed Response Response Status <b>W</b> PROPOSED REJECT.			PROP	OSED REJE	CT.				
Proposal already discussed	at Montreal plenary meet	ing (July 2022	). Consensus to modify	Refere	nce receiver	of 50G	BASE-SR is different of 5	OGBASE-AU.	
wavelength range was not re https://www.ieee802.org/3/cz comment #32 to P802.3cz/D	ached (see z/public/jul_2022/Minutes	0	, .	temper	atures. See	examp	s been determined based les in contribution 011_comment_i_163.pdf)		ents at extreme
Range of +/- 10 nm is consis wavelength, i.e. C/138 138.7 52-7. The TX and RX characteristi device samples operating in and bias current of up to 8 m out reliability cannot be achie densities. It was also demon requirements, the bias curre reducing the speed and optic making much more difficult t demonstrated that 980nm de present a much more uniforr could be optimized for high t low temperature and vicever Technology for manufacturin during last decade for senso efficient VCSELs at 980nm i availability of manufacturers industry.	.1, Table 138-8. C/95 95 cs have been derived wit a range of backside temp A. It was demonstrated of eved with 850nm VCSEL strated that in order to m nt should be reduced < 5 cal power and increasing he PHY implementation. evices are much less dep n threshold current betwee emperature, but degradir sa. g 980nm VCSEL devices r devices. Producing relia s much easier than at 85	7.1, Table 95 h margin consperature betwee during the proj devices using arginally meet mA in high te the RIN of the On top of that endent with te een -40 and 12 ag (or making s is widely ava able, high spee Onm. This will	-6. C/52 52.5.1, Table idering real 980nm een -40°C and +125°C ect that required wear- similar current the wear-out reliability mperature, therefore VCSEL devices, hence , it was also mperature, so they 25°C. 850nm devices impossible) operation at ilable. It was developed ed, low noise, and allow to expand the	VCSEI might I	to TP2 inse be compense	rtion lo ated wit	apact min OMA at TX for t ss, which finally impact in th bias increase. However vavelength VCSELs.	the link budge	et. Min ER decrease

Pa **117** Li **16** 

C/ 166	SC 166.6.3.3	P <b>117</b>	L <b>40</b>		# I-108	C/ 166	SC 166.7	.1.1	P <b>120</b>	L16	# <u>I-165</u>	
Murty, Ra	imana	Broadcom	Inc.			Dawe, Pie	's J G		NVIDIA			
Comment	t Type <b>TR</b>	Comment Status D			Wavelength	Comment	Туре Е	Comment S	Status D		Table combination	
		ge) is defined over the na				Tables	166-13, 14 0	can be combined				
datac		n detect a wide range of wa	avelengths have	been wid	dely used in	Suggested	Remedy					
Suaaeste	dRemedy					combi	ne the tables					
Expand the center wavelength range to 840 - 990 nm.						Proposed	Response	Response S	tatus W			
· Proposeo	roposed Response Response Status W						PROPOSED REJECT.					
,	POSED REJECT.							tables may result in G=1 and G=2 using the second sec			table, and the need to	
Propo	osal already discu	ssed at Montreal plenary r	neeting (July 202	2). Cons	sensus to modify	C/ 166	SC 166.7	.4.1	P <b>121</b>	L <b>46</b>	# I-166	
	length range was	not reached (see g/3/cz/public/jul_2022/Min	utos 207 01 07'	22 ndf M	otion #2 and	Dawe, Pier	rs J G		NVIDIA			
	nent #32 to P802.		ules_302_01_072			Comment	Туре Т	Comment S	Status D		BT4 bandwidth	
betwe	en light emission	vavelength range to 840 - 9 and reception, including th	he photodetector,	have to	be validated and	are alr	eady e.g. 70.		signalling rat	es (75% of slight	n the scope hardware ly different signalling ifferences	
		requirements for the full r well as inline connections				Suggested	Remedy					
physi	cal contact conne	ctivity, which can be wave	length agnostic, a	as a feas	sible solution for	Align v	vith the band	widths that scopes	actually have	e: e.g. 7.5, 19.34	GHz.	
	notive application notion.	just because it is used in o	data-centers may	be an e	rroneous	Proposed	Response	Response S	tatus W			
Expand by concernent of option and a support well in	nded beam optics nnector makers to ectivity technology tical coupling, lens obsorption of used ort reflow soldering n a much wider ra plutions and will fil	, physical contact, and air o supply a robust, low cost to automotive industry bases and EBO connections, materials needs to be cor g, automotive environment nge of wavelengths, then hally increase the cost with affected by the materials	t, and fully automa ased on OM3 fibe , wavelength depensidered. If same tal and mechanic we are imposing	ated tern r. In the endent re material al condit	ninated optical implementation efractive index Is have to tions and perform	In the impuls practic implen bandw setup	specification e response c e in modern nented in dig idth can be a (166.7.8.1) is	equipment. In case ital filters, so freque adjusted to any valu	ndwidths, it h nented in the e of real-time ency configur ue related wit ny other data	sampling oscillo oscilloscopes, B ation is highly fle h baud-rate. E.g. rate, but specifie	scope, which is usual	

Change bandwidth to 7.5 GHz for 2.5, 5 and 10GBASE-AU (mirrors Clause 52 bandwidth)

Change bandwith to 19.34 GHz for 25 and 50GBASE-AU (mirrors Clause 95 and 112 bandwidth for Tx Eye).

Subclause 166.5.2: Change nsq value for 2.5GBASE-AU from 4 to 2

Pa **121** Li **46** 

CRU corner

C/ 166	SC 166.7.4.1	P <b>121</b>	L <b>53</b>	# I-167
Dawe, Piers	JG	NVIDIA		

Comment Type T Comment Status D

CRU corner is lower than usual, 100 kHz for 2.5 to 10G, 1 MHz for 25G and 50G, vs. 4 MHz for 10 GBd, 10 for 25 and 4 for 50

### SuggestedRemedy

For 10G, change from 100 kHz to 400 kHz to keep in proportion with 25G and 50G. For 5G, consider changing 100 kHz to 200 kHz.

Proposed Response Response Status W

PROPOSED REJECT.

CRU corner is lower than usual.

#### In

https://www.ieee802.org/3/cz/public/8\_feb\_2022/perezaranda\_3cz\_03b\_080222\_test\_metho ds.pdf was explained the rational behind the CRU low frequency corner.

This frequency corner is fundamentally affected by the LPI operation mode. After LPI is detected, while receiving Refresh codewords, the receiver only needs to sample, equalize and detect a small portion of symbols of each CW (last n 65-bit blocks plus the first m repeated 20-bit PHD sub-blocks for Wake detection and robust decoding of PHD).

Both clocks, TX and RX, should experience small deviation during Refresh CW transmission. The minimum clock recovery actuation period is equivalent to a CW (5440 bits) transmission time. For 50 Gb/s CW time is 108.8 ns. For 2.5 Gb/s CW transmission time is 2176 ns.

A CRU corner frequency of less than 1/4 the CW transmission rate is considered (Nyquist frequency of OJTF of RX CDR will be 1/2 CW transmission rate, so 1/4 is in the middle of the band of the control filter loop, so it is doable).

Under this consideration, the CRU corner frequency would be 2 MHz for 50 Gb/s, and 100 kHz for 2.5 Gb/s operation.

In general lower corner-frequencies in CRU spec will translate in an easier RX CDR implementation, and higher ones in easier TX PLL implementation. It is a trade-off, and in general we can consider that can scale with rate.

However, if we consider that multi-rate PHY components are expected in the market, then it is desirable to use the same PLL in some of them to simplify the implementation.

Multi-rate consideration for CRU specification was re-considered in two rate ranges in D2.1 comment resolution.

With this re-consideration we can make easier to meet the specifications in high rate modes, .i.e. easier TX PLL design without penalizing the RX CDR. This does not prevent

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

implementation of multi-rate components support from 2.5 to 50 Gb/s, because different PLL/VCO technology is expected for rates of <= 10 Gb/s and >= 25 Gb/s. Based on that, two CRU corner frequencies where considered for two data rate-ranges:

First range: 2.5, 5, and 10Gb/s. CRU corner freq = 100 kHz
Second range: 25 and 50 Gb/s. CRU corner freq = 1 MHz.

C/ 166	SC 166.7.8.2	P125	L <b>7</b>	# <mark>I-168</mark>
Dawe, Pie	rs J G	NVIDIA		
Comment	Type <b>TR</b>	Comment Status D		Antialiasing filters
is com	posed by the cond	catenation of two first-order lo	w-pass filter	with -3 dB bandwidth of

S × 26.5625 / 2 GHz - not clear if that's each or in combination

SuggestedRemedy

Please clarify

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "For BASE-AU with G = 2, the antialiasing filter is composed by the concatenation of two first-order

low-pass filter with –3 dB bandwidth of S × 26.5625 / 2 GHz."

### to

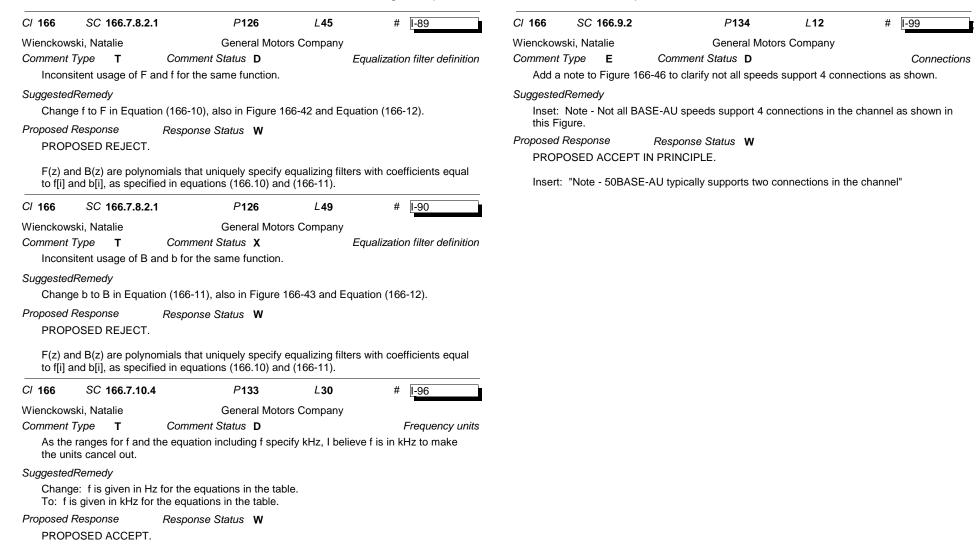
"For BASE-AU with G = 2, the antialiasing filter is composed of the concatenation of two first-order low-pass filter with -3 dB bandwidth of S × 26.5625 / 2 GHz each one."

See #i-140.

Pa **125** Li **7**  Page 21 of 25 11/10/2022 11:17:23

C/ 166 SC 166.7.8.2.1 P125 L45 # 1-169	C/ 166 SC 166.7.8.2.1 P126 L11 # -174				
bawe, Piers J G NVIDIA	Dawe, Piers J G NVIDIA				
Comment Type         T         Comment Status         D         Equalization filter definition           This way of describing filters is unlike e.g. 121.8.5.4 TDECQ reference equalizer. z is not defined or needed.         The status         D         Equalization filter definition	Comment Type T Comment Status D Equalization filter definition I would not expect that a 2.5G or 5G link would benefit much from the second and third DFE tap				
SuggestedRemedy	SuggestedRemedy				
Rewrite following other clauses, defining all quantities and functions as necessary.	Consider reducing to 1 or 2 DFE taps				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
The description of the filters is consistent and mathematically coherent. $z$ represents the delay and it is necessary to specify the B(z) and F(z) polynomials.	According to equation (166-11), the first coefficient of B(z) polynomial is 1 w/o delay.				
Add definition of z as follows:	According to Figure 166-41 the transmitted patter is filtered by 1-B(z), which is equivalent to a filter with N_B-1 taps.				
Page 125, line 42, Add at the end of the line "z^-i represents a delay of i unit intervals"	Therefore, the number of feedback taps considered in the DFE is N_B-1: 2 feedback taps for 25, 10, 5, 2.5 Gb/s and 1 feedback tap for 50 Gb/s, which is consistent with one of the options proposed by the commenter.				
Page 130, line 37, Add at the end of the line "z^-i represents a delay of i unit intervals"	The current number of feedback taps for 2.5 and 5 Gb/s offers more flexibility for TX and RX implementation.				
	F(z) and B(z) are part of a reference RX used for TDFOM and SRS calibration. There might be implementations where no B(z) is implemented in the receiver, or higher or lower number of feedback taps are used.				
	In a multi-rate PHY is expected that same RX circuitry will be used for different rates, e.g. 2.5, 5, and 10 Gb/s.				
	However, the readability of the text may be improved by using a definition of B(z) that mirrors the one given in Clause 93.				
	Figure 166-41: Change "1 - B(z)" to "B(z)". Eq (166-11): Change to "B(z) = sum(i=1,Nb, b[i]z^i)" Table 166-11:				
	Change number of taps of the B(z) filter (N_B): "3" to "2", and "2" to "1". Page 126, line 14: Change "1-B(z)" to "-B(z)". Figure 166-43, title of figure:				
	Figure 166-43, title of righte. Change "1-B(z)" to "-B(z)" Figure 166-43: Change "-b[N_B-2]" to "-b[N_B-1]" and "-b[N_B-1]" to "-b[N_B]". Eq (166-12): Change "N B-1" to "N B".				

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Pa **134** Li **12** 

C/ 166		166.9.2.1	P <b>135</b>	L <b>33</b>	#	I-170	_
Dawe, Pie			NVIDIA				Page
Comment Up to		TR f connecto	Comment Status D or loss! This looks like a	modal noise probl	em, unles:	Connections s there is	Chai requ
			that most of this loss is				to "T
Suggeste	dRemed	ly					caus
Redu	ce the m	- naximum te	otal connection insertion	loss or provide rule	es for wha	t sort of loss is	cons
allow	ed.						C/ 166
Proposed	l Respon	ise	Response Status W				Wiencko
PRO	POSED	ACCEPT	N PRINCIPLE.				Commen
10 de	lie max	connectio	ns insertion loss for 10, {	5 and 2 5 Ch/c Pa	rt of this in	sortion loss is	l beli
			elective, therefore, to cal				Suggeste
insert	ion loss	is consiste	ent with Table 166-21. C	hannel insertion los	ss of Table	e 166-11	Char
		•	0.08 rounded) fiber atten	uation and allocation	on of 0.4 d	B for cable	To:
	ibution	enalty due	to aging.				Add
https://www.ieee802.org/3/cz/public/3_aug_2021/perezaranda_3cz_01a_030821_link_budg			821_link_budg	AEC			
et_proposal.pdf shows:				Proposed			
* N	lodal noi	se impact	in receiver sensitivity at	several rates			PRO
* N	lodal noi	ise vs moo	le selective loss based o	n			Altho
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			on-MSL IL for inline con of MSL IL	nections and there	fore max N	VIN, and RX	IEEE
_							The
Base	d on this	, allocation	n for modal noise is calc	ulated for all the da	ita-rates		but w
			considered much highe	r insertion loss in t	he inline c	onnections	Page
* 1+	io not old	or that ph	voical contact connectio	n will be able to me	ot onviror	montal (a a	Char
<ul> <li>* It is not clear that physical contact connection will be able to meet environmental (e.g. grease, dust conditions, metallic particles, in car automated assembly plant, or a garage) and mechanical (e.g. vibrations, scoop proof) requirements with the cost constraints of automotive application.</li> <li>* During more than two decades, SI-POF has been used in automotive applications (e.g. MOST, 1000BASE-RHC), implementing butt-coupling with air-gap in inline connections to avoid end face surfaces of fiber are damaged by mechanical and environmental conditions.</li> <li>* Expanded beam optics, physical contact, and air gap connections are under consideration by connector makers to supply a robust, low cost, and fully automated</li> </ul>					C/ 166		
					Pardo, C		
					Commen		
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termi	nated op	tical conn	ectivity technology to au	omotive industry b	ased on C	M3 fiber.	Eithe
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bending loss (0.2 dB).

Page 118 line 49:

Change footnote c: "Link penalties are used for link budget calculations. They are not requirements and are not meant to be tested."

to "The allocation for penalties considers addition of two factors, the receiver sensitivity loss caused modal noise and the macro-bending loss. Maximum macro-bending loss considered is 0.2 dB."

C/ 166	SC 166.14.1	P <b>138</b>	L11	# I-102
Wienckowski, Natalie		General Motors	Company	
Comment	Туре Е	Comment Status D		Temperature grades

I believe the temperature grades are based on the AEC-Q100 definition. This is missing.

SuggestedRemedy

Change: shall clearly indicate the temperature grade of Table 166–23 To: shall clearly indicate the AEC-Q100 temperature grade as shown in Table 166–23 Add 1.3 Norative references and in it add

AEC - Q100: Failure Mechanism Based Stress Test Qualification For Integrated Circuits

roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Although currently the temperature grades are the same as defined in AEC-Q100, eventual changes to the AEC-Q100 specification may lead to a maintenance requirement to change IEEE 802.3 document.

The Editor beleives it is more practical to keep both temperature grade definitions separate, but with the same values at the date of publication of the standard.

Page 138 line 11,

Change "temperature grades" to "temperature classes"

C/ <b>166</b>	SC 166.14.1	P <b>138</b>	3 L17	# I-2
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 Page 24 of 25

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C/ 166A	SC 166A.2	P156	L <b>38</b>	# I-171
Dawe, Piers	s J G	NVIDIA		
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Table is	s hard to use b	ecause it is split over two pag	jes; font too smal	ΙΙ.
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		s setting for the three tables i like the 7 point entries can be		
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PROPOSED ACCEPT IN PRINCIPLE.

Pagination (including splitting a table) is automated in the document preparation software, and splits such as this will change with addition or deletion of draft content. Thus, such items are best addressed during publication preparation. Guidance on comments in SASB Operations Manual 5.4.3.3 states, "It should be borne in mind that proposed standards are professionally edited prior to publication."

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