C/ 24 SC 24.4.1 Dawe, Piers	P 49 Avago Techr	L 53	# 1	C/ 25 Dawe, Piers	SC 25.3	P 54 Avago Techr	L 53	# 4
Comment Type T Saying '100BASE-X implemented' could can vary with time (i SuggestedRemedy Change 'when' to 'if Efficient Ethernet is	Comment Status D supports Low Power Idle mode be interpreted to mean that the .e. in every case can be switch . If the EEE feature can be swi implemented and enabled.' or ' ow Power Idle mode is enabled.	when the Energ EEE implementa ed on and off). E tched on and off, f the Energy Effi	ation within 100BASE-X but it's optional. say 'if the Energy	Comment Ty Untidy ta SuggestedR Make th Proposed R PROPO	, able wasting space emedy e table full width asponse SED REJECT.	Comment Status D	lologico	
Proposed Response PROPOSED ACCE Change to 'if the Energy Efficie Please refer to com	nt Ethernet is implemented and	Low Power Idle	mode is utilized.'	Cl 35 Dawe, Piers Comment Ty Page ar	SC 35.1.1 <i>pe</i> TR d line numbers ir	P6 Avago Techr Comment Status D P802.3ayD2.3.	L 16 nologies	# 5
SuggestedRemedy Change 'Interpret ar	Avago Techr <i>Comment Status</i> D erating EEE MII opcodes would ad generate MII opcodes to optinally, interpret and generate MI <i>Response Status</i> W	d be optional like onally enable or	disable the Low power	SuggestedR Per com Proposed R PROPO The con both 100 Add bull h) The	emedy ment. State that esponse SED ACCEPT IN menter is correct 00BASE-KX and et point h) to 35.1 GMII may also su	t that this should be includ 1000BASE-T. .1 pport low power idle signa	with 1000BASE-	KX. vever, it is defined for
	ce. Also, I think there should be PMD_RXQUIET.request(rx_q <i>Response Status</i> W	e no space in PN	# 3	Etherne	for some PHY ty	pes (see Clause 78).		

C/ 35 SC 35.2.1 Dawe, Piers	P 65 Avago Techn	L 14 ologies	# 6	C/ 45 SC 45.2.7.15 Dawe, Piers	a.1 P 99 Avago Techi	L 49 nologies	# 9
Comment Type TR Need to be clear that th	Comment Status D is is optional.	-		Comment Type T Consistent spelling	Comment Status D	-	
	changes slightly when Low P Idle signaling feature is imp ignaling is in operation.' Response Status W			SuggestedRemedy To align with base doc 'advertises'. Two more Proposed Response PROPOSED ACCEPT	Response Status W	o 'advertised', 'ad	vertizes' to
PROPOSED ACCEPT Change 'The mapping o	IN PRINCIPLE.	ower Idle signali	ng is in operation.'	Cl 45 SC 45.2.3.31 Dawe, Piers	P 46 Avago Techi	L 47 nologies	# 10
Cl 36 SC 36.2.4.7 Dawe, Piers Comment Type TR Page and line numbers	P 40 P 40 Avago Techn <i>Comment Status</i> D in P802.3ayD2.3. t the new codings in Table 3	L 43 ologies	# [7]	Comment Type E Multi-Word SuggestedRemedy Multi-word Proposed Response PROPOSED REJECT. See #14	Comment Status D Response Status W		
an option of 10GBASE- Proposed Response PROPOSED ACCEPT Add sentence: 'The abil	Response Status W	, /LI1/ and /LI1/ is		Cl 45 SC 45.2.1 Dawe, Piers Comment Type E P802.3ba is providing a	P 37 Avago Tech Comment Status D a very welcome third column the subclause for each regi	n in Table 45-3, ca	# 11
Cl 40 SC 40.1.4 Dawe, Piers Comment Type T j) Ability to signal SuggestedRemedy j) Optionally, ability to si Proposed Response	P 76 Avago Techn Comment Status D ignal ? Response Status W	L 45 ologies	# [<u>8</u>]	Please do the same. 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

proposed responses IEEI	E	IEEE F	P802.3az D1.0 Energy	Efficient Eth	nernet comm	ents		Nov 2008
C/ 45 SC 45.2.1.6 Dawe, Piers	P 38 Avago Techno	L 29 blogies	# 12	<i>Cl</i> 00 Dawe, Pie	SC 0	Р 1 Avago Tec	L 56 nnologies	# 15
Missing subclause heading SuggestedRemedy Insert the heading for 45.2. headings.	1.6, which contains Table	9 45-7. Check f	or any other missing	printe Suggestee Remo Proposed	has crept into the firs, and 2 lines lood and 2 lines lood and 2 lines lood and a lines lood and a line and a	Comment Status D ne Frame template: page no wer than in published 802.3 e line-feed in each of left and Response Status W	3.	
The registers are moving, h	nowever the new clause s	ubheading mus	t be included.	<i>Cl</i> 01 Dawe, Pie	SC 1.4	P 17 Avago Tec	L 21	# [16
Pre-existing entries all say ' register bit definitions and the superfluous, but one should <i>SuggestedRemedy</i> To remove the clutter, strike	he entries are grouped as d be consistent.	s 'PMA/PMD typ	e selection' this seems	more check 64B/6 Suggester If you Response ACCE	up-to-date 8B/10 that we do have 6B (10GE) and <i>dRemedy</i> do decide to pu	ll TP-PMD into 802.3, pleas Response Status C LE.	C-PI-4 but we for C otable for 8B/10B	lause 1, would have to
This project has no reason	to edit that register.			<i>Cl</i> 01 Dawe, Pie	SC 1.4	Р 18 Аvago Tec	L 26	# 17
Table too narrow for the net SuggestedRemedy Resize column widths to co		L 8 blogies	# 14	Comment re 'Ba of 802 Suggester Chang Proposed	<i>Type</i> T seline Wander' 2.3 d <i>Remedy</i>	Comment Status D There is no quantitative def rander'. Similarly emitter co Response Status W	inition of this in TF	
It is unclear which table is to correspond to a table that n The commenter is advised comment.	needs changing.							

Page 3 of 70 11/4/2008 1:52:38 PM

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 01 SC 1.5 Dawe, Piers	P 18 Avago Techno	L 34 blogies	# 18	C/ 14 Dawe, Piers	SC 14.1.1	P 20 Avago Tech	L 16 nologies	# 21
Comment Type T Containing the growing	Comment Status D I clause title length, and as the I's the modulation scheme that	e medium isn't l	baseband (it's just a	Comment 7 The lay Suggested Change	Type E ver diagram could R <i>emedy</i> e the 7-point mat	Comment Status D be improved. If you chang	ge it	
Proposed Response PROPOSED REJECT. Page/line reference ser reference	Response Status W ems to be incorrect. Will recor	nsider after res	olving page/line number	layers i	n the stack. Sug at the same leve cks.	wn so that it doesn't make ' gest putting 'OSI reference I, underlined, to show they Response Status W	model layers' and	d 'LAN CSMA/CD
C/ 01 SC 1.3 Dawe, Piers	P 16 Avago Techno	L 44 blogies	# 19	•	DSED REJECT.	Response Status 🗤		
SuggestedRemedy	Comment Status D 9 exist? I understand the FCD 9314-10, don't delete the ANS Response Status O		n in 2005.	Suggestedl	<i>Type</i> E n't use colour in Remedy		L 3 nologies	# 22
2/ 14 SC 14.1.1 pawe, Piers	P 20 Avago Techno	L 19 blogies	# 20	Proposed F	e all the blue to b Response DSED ACCEPT.	lack Response Status W		
	Comment Status D ecided not to maintain 'ISO/IE eferring to itself as 'Internation			C/ 14 Dawe, Piers	SC 14.9	P 28 Avago Tech	L 1 nologies	# 23
shown in Figure 14-1.' to 'Figure 14-1 shows the	clause to the entire ISO/IEC relationship of the 10BASE-T d) with other sublayers, to the eference model.'	or 10BASE-Te	PMA, MDI and	Proposed F	s 14.10 R <i>emedy</i> e 14.9 to 14.10, s	Comment Status D several times Response Status W		
Proposed Response	Response Status W			FNUF				

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

proposed responses IEEE	IEEE P80	2.3az D1.0 Energy E	Efficient Eth	nernet comme	ents			Nov 2008
Cl 22 SC 22.2.2.7 P 32 Dawe, Piers Avago Technolo	L 10 ogies	# 24	<i>Cl</i> 24 Dawe, Pie	SC 24.4.1	P Avag	19 Jo Techno	L 53 logies	# 27
Comment Type T Comment Status D re 'driving the value <1110> onto' On the page before use < >	e and in the table	below you don't		naterial should b	Comment Status e underlined	D		
SuggestedRemedy Change to 'driving the value 1110 onto' Similarly on Proposed Response Response Status W	n line 14, and in 35	5.2.2.7.	Proposed	rline item c. Also Response	in Table 35-2, 'Asse Response Status	•	ver idle'.	
PROPOSED ACCEPT.			-	POSED ACCEPT are more text to	be underlined in sub	clause 24	1.3 and 24.4.	
Cl 24 SC 24.1.6 P 37 Dawe, Piers Avago Technolo	L 27 ogies	# 25	<i>Cl</i> 46 Dawe, Pie	SC 46.1.7		1 03 Jo Techno	L 13 logies	# 28
Comment Type T Comment Status D Figure 24-4 has much dashed material but I did not see	e a statement of v	vhat it means.	Comment 'desw	51	Comment Status	_	!	
SuggestedRemedy Add a sentence here; maybe 'Functionality for Far-End	d Fault Indication a	and Low Power Idle	Suggestee descri					
is shown dashed.' Proposed Response Response Status W PROPOSED ACCEPT.			•	Response POSED ACCEPT	Response Status	w		
C/ 24 SC 24.1.6 P 38	L 8	# 26	<i>CI</i> 46 Dawe, Pie	SC 46.1.1		1 90 Jo Techno	L 16 logies	# 29
Dawe, Piers Avago Technolo <i>Comment Type</i> T <i>Comment Status</i> D There is no function or process called 'CARRIER SEN: Sense'. <i>SuggestedRemedy</i>	SE' but there is or		Bullet and ex contin	and line number e says 'The RS xpects continuou uous? Need a n		s data or o racters or	n the receive pa	ers on the transmit path ath.' If EEE, is it still list, anyway.
Change 'CARRIER SENSE' to 'Carrier Sense'. Similar PCS PMA PMD). Similarly Fig 40-3, 40-4, 40-5, 40-14			Suggested Per co	dRemedy omment				
Proposed Response Response Status W PROPOSED REJECT. The use of capital letters are in original text.			'	Response POSED ACCEPT	Response Status	w		
			The d	efinition of XGMI	I with LPI is still cont	inuous, so	o e) doesn't nee	ed to be changed.
			Add b	ullet item:				

h) The XGMII may also support low power idle signaling as defined for Energy Efficient Ethernet for some PHY types (see Clause 78).

Page 5 of 70 11/4/2008 1:52:38 PM

proposed responses	IEEE	IEEE	P802.3az D1.0 Energy I	Efficient Et	hernet comm	ents		Nov 2008
Cl 46 SC 46.3.1.2 Dawe, Piers	P 104 Avago Techno	L 3 blogies	# 30	<i>Cl</i> 46 Dawe, Pie	SC 46.3.1.2 ers		4 L 20 Technologies	# 33
Comment Type E Can tidy up the table SuggestedRemedy	Comment Status D			PLS_	eve there is a sm _DATA.indication	Comment Status I all bug in one of these t parameter for Start is s e (a preamble octet). B	ables. It may be th hown as 'No application about the second structure in the	able parameter, first eight
Resize column widths	s to contents, making the table	full width. Also	Table 46-4.	Suggeste	edRemedy			
Proposed Response PROPOSED ACCEP	Response Status W T.				Id the PLS_DAT	A.indication parameter f	or Start be 101010 ²	10 (binary)? Similarly in
Resize tables 46-3 an	nd 46-4.			'	l Response POSED ACCEPT	Response Status	N	
C/ 46 SC 46.3.2.2 Dawe, Piers	P 106 Avago Techno	L 52 blogies	# 31		preamble octet is meter.	replaced by the start ch	aracter, that is why	there is no applicable
diagram should work used 'Frame reception SuggestedRemedy	reception' to 'Frame reception Response Status W	ds a better title			SC 48.2.3	P 232	ZERO, ONE of a fra 2 <i>L</i> 35 Technologies	ame (a preamble octet). " # 34
C/ 46 SC 46.3.2.2		L 38	# 32	Need	I to make clear th	rs in P802.3ayD2.3. at the new codings in T	able 48-2 and Table	e 48-3 are optional.
	Avago Techno <i>Comment Status</i> D 0xF (all ones) no RXC line can	0	it's 0x0, no RXC line	Add s The a		specified in Table 48-3. or receive Low Power Id		support an option of
can be high. SuggestedRemedy Remove the low lines during 'frame data'.	at either end of the RXC<3:0>	composite trac	e, remove the high line	PRO	l Response POSED ACCEP		N	
Proposed Response	Response Status W			Chan	ige 48.2.3 (as su	ggested).		
PROPOSED REJECT	•			Add s	sentence after 'is	specified in Table 48-3.	<u>':</u>	
	ause RXC is a vector, therefore iate. Furthermore, the style is c					t or receive Low Power net (see Clause 78).'	Idle is an option for	certain PHYs to support

Cl 49 SC 49.2.4.4 P 268 L 11 # 35 Dawe, Piers Avago Technologies Avago Technologies	C/ 55 SC 55.6.1.2 P 146 L 1 # 37 Dawe, Piers Avago Technologies
Comment Type TR Comment Status D Page and line numbers in P802.3ayD2.3. Need to make clear that the new codings in Table 49-1 are optional.	Comment Type E Comment Status D Wrong table number, no subclause heading. Table is too long.
SuggestedRemedy Add sentences after 'The control characters and their mappings to 10GBASE-R control codes and XGMII control codes are specified in Table 49-1. All XGMII and 10GBASE-R control code values that do not appear in the table shall not be transmitted and shall be treated as an error if received.': The ability to transmit or receive Low Power Idle is an option, to support an option of 10GBASE-KR only.' If this option is not supported or not enabled, Low Power Idle shall not be transmitted and shall be treated as an error if received.' Add PICS to support the	SuggestedRemedy Insert '55.6.1.2 10GBASE-T Auto-Negotiation page use'. Change 'Table 55-10' to 'Table 55-11'. Resize column widths to contents. Proposed Response Response Status PROPOSED ACCEPT. The editor will redo the table with the suggested changes.
shalls. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change 49.2.4.4	C/ 70 SC 70.6.4 P 151 L 9 # 38 Dawe, Piers Avago Technologies Avago Technologies Comment Type E Comment Status D manditory manditory Technologies
After "shall not be transmitted and shall be treated as an error if received." Add 'The ability to transmit or receive Low Power Idle is an option for certain PHYs to support Energy Efficient Ethernet (see Clause 78). If this option is not supported Low Power Idle	SuggestedRemedy mandatory Also 70.6.5, 71.6.6 Proposed Response Response Status W PROPOSED ACCEPT.
shall not be transmitted and shall be treated as an error if received.' Cl 55 SC 55.3.5.4 P 132 L 133 # 36 Dawe, Piers Avago Technologies	Cl 70 SC 70.6.10.2 P 152 L 19 # 39 Dawe, Piers Avago Technologies Comment Type E Comment Status D
Comment Type ER Comment Status D 6.5 point text! The minimum per style manual is 8 point.	usec, msec SuggestedRemedy us, ms (and use a mu not a u). At least four tables.
 SuggestedRemedy Change all text in this figure and Fig 55-8 to 8 point. You can put the second and third boxes beside each other if you run out of height. Proposed Response Response Status W PROPOSED ACCEPT. 	Proposed Response Response Status W PROPOSED ACCEPT.

proposed responses I	EEE	IEEE F	802.3az D1.0 Energy E	fficient Et	hernet c	omme	ents		Nov 200
C/ 70 SC 70.1 Dawe, Piers	P 149 Avago Technol	L 18 ogies	# 40	<i>Cl</i> 99 Dawe, Pie	SC 9 9	9	P1 Avago Techno	L 2 logies	# 43
Comment Type E Table too narrow. Fran	Comment Status D ne won't take the table notes ir	nto account who	en sizing columns	Comment Amer	t <i>Type</i> ndement	E	Comment Status D		
Also make Table 72-1 v Proposed Response PROPOSED ACCEPT.	Response Status W	two lines. Alsc	Table 71-1, 72-1.	Also a At line Broke Line 2 Media	ndment at line 30, e 30, extra en link 'Cla 22, too ma	change comma iuse 78' iny capit Control j	parameters, Physical Layers a		ent parameters for
C/ 72 SC 72.7.4.2 Dawe, Piers	P 184 Avago Technol	L 30 ogies	# 41	Proposed PROF	Response POSED A		Response Status W		
Comment Type E FS12 Status O	Comment Status D			<i>Cl</i> 99 Dawe, Pie	SC 9 9	9	P 3 Avago Techno	L 8 logies	# 44
SuggestedRemedy FS12 Status LPI:M ? A	Also CF43 and following			Comment conci		E	Comment Status D	-	
Proposed Response PROPOSED ACCEPT If TF agrees to LPI:M, 6	Response Status W IN PRINCIPLE. editor will replace O with "LPI:N	//" ins FS12 and	1 CF43-CF47	At line	ciously e 10, cons	ecuively	y s/b consecutively is too optimistic		
C/ 76 SC 76.2.3.3 Dawe, Piers	P 193 Avago Technol	L 36 ogies	# 42	Proposed	,	е	Response Status W		
Comment Type E bit <0> bit <1>	Comment Status D			<i>Cl</i> 99 Dawe, Pie	SC 99)	Р 5 Avago Techno	L 5 logies	# 45
<i>uggestedRemedy</i> bit 0 bit 1				Comment Secti		E	Comment Status D	-	
roposed Response PROPOSED REJECT.	Response Status W			Suggeste Sectio	dRemedy				
This comment was WIT	THDRAWN by the commenter.			Line ²	12, Gb/s sj 18, change	e 'of the	a line break. There's a Fram IEEE Std 802.3 standard with tion point-to-multipoint' to 'ope	' to 'of IEEE S	td 802.3 with'
Intended for av				Proposed	-	e	Response Status W		

Page 8 of 70 11/4/2008 1:52:39 PM

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/99 SC 99 P11 L 49 # 46	C/ 28C SC 28C.12 P196 L 41 # 48
Dawe, Piers Avago Technologies	Healey, Adam LSI Corporation
Comment Type E Comment Status D	Comment Type T Comment Status D
There is a newer version of this page	I'm not sure where to anchor this comment, but Annex 28D should also be amended to
SuggestedRemedy Ask P802.3av for it	outline extensions of Clause 28 for Energy Efficient Ethernet and I propose that Clause 28 extensions for EEE include:
Proposed Response Response Status W PROPOSED ACCEPT.	 Auto-Negotiation is mandatory for a EEE PHY (this is currently not the case for 100BASE-TX) The exchange of additional next pages for EEE capability and mode negotiation extends
Cl 25 SC 25.4.11.5 P 60 L 19 # 47 Healey, Adam LSI Corporation	the time required to complete Auto-Negotiation. To reduce this time, a EEE PHY may use the extended next page mechanism introduced by IEEE 802.3an-2006 (it is not currently an option for 100BASE-TX).
	SuggestedRemedy
Comment Type T Comment Status D The wake time for the 100BASE-TX receiver is dependent on the time required to activate	Add amendment to Annex 28D per comment.
the far-end transmitter. Furthermore, the receiver should have some assurance of a compliant input signal upon which to base timing recovery and adaptive equalization. Neither of these aspects of transmitter behavior are currently defined in the draft.	Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy	C/ 36 SC 36.2.4.8 P72 L 25 # 49
Specify that the transmitter: 1. Shall deliver a signal that will assert signal detect within TBD1 us following transmitter	Healey, Adam LSI Corporation
activation	Comment Type T Comment Status D
Shall deliver a fully compliant 100BASE-TX signal within within TBD2 (> TBD1) us following transmitter activation	Table 36-3, by itself, does not adequately describe the low power idle encoding process. Per the PCS transmit ordered_set state diagram (Figure 36-5), TX_EN = FALSE is
Proposed Response Response Status W	encoded as /l/, regardless of TX_ER and TXD<7:0>.
PROPOSED ACCEPT.	Suggested Remedy
25.4.11.8 Changes to 10.1.2 "Transmitter"	Modify the PCS transmit ordered_set state diagram (Figure 36-5) and PCS transmit code- group state diagram (Figure 36-6) to clearly define /LI/ encoding, mark the modifications as optional, and define new state variables as appropriate.
During the Low Power Idle mode, when tx_quiet is deasserted, the transmitter output shall deliver a signal that exceeds Signal_Detect assertion threshold within 2 us, and deliver a	Proposed Response Response Status W
fully compliant 100BASE-TX signal within 5 us.	PROPOSED ACCEPT IN PRINCIPLE.
	Significant changes will be required to the clause to reflect the additions to the state machines and the operation of Low Power Idle in the transmit and receive directions.
	The editor will work with the commenter to prepare a more complete definition in the next draft.

Cl 36 SC 36.2.4. Healey, Adam	.8 P 72 LSI Corporat	L 25 ion	# 50	C/ 40 Healey, Ad	SC 40.2.2 am		P79 LSI Corporati	L 5 on	# 53
Comment Type T Table 36-3, by itself, Per the PCS receive	Comment Status D does not adequately describe state diagram (Figures 36-7a d RX_ER = FALSE (e.g. norma	the low power id and 36-7b), /Ll/ v	e decoding process. Jould be decoded as	Comment Correc related Suggested	<i>Type</i> E t indentation fo l primitives.	Comment s	Status D		all following EEE-
Modify the PCS rece	eive state diagram (Figures 36- modifications as optional, and c			Proposed I		Response S T.	Status W		
Proposed Response PROPOSED ACCEF	Response Status W PT IN PRINCIPLE.			<i>Cl</i> 40 Healey, Ad	SC 40.3 am		P 81 LSI Corporati	L 1 on	# 54
See #49				Comment	Туре Е	Comment	Status D		
C/ 40 SC 40.1.3 Healey, Adam	P 75 LSI Corporat	L 1 ion	# 51	highlig	ht optional func		Is using dashe	d lines and add	nal feature, clearly a note below the figure
Comment Type E	Comment Status D			• • •	Domodu				
Referring to Figure 4	10-3, since Energy Efficient Eth				mment.				
Referring to Figure 4 highlight optional fun indicating that dashe		ed lines and add		Per co Proposed I	mment.	Response S T.	Status W		
Referring to Figure 4 highlight optional fun indicating that dashe	40-3, since Energy Efficient Eth nctions and signals using dashe	ed lines and add		Per co Proposed I PROP	mment. Response OSED ACCEP	Г.		/ 8	# 55
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment.	40-3, since Energy Efficient Eth nctions and signals using dashe	ed lines and add		Per co Proposed I PROP CI 40	mment. Response OSED ACCEP SC 40.3.1.3	Г.	P 82	<i>L</i> 8 on	# 55
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment.	40-3, since Energy Efficient Eth notions and signals using dashe ed lines denote optional feature <i>Response Status</i> W	ed lines and add		Per co Proposed I PROP CI 40 Healey, Ad	mment. Response OSED ACCEP SC 40.3.1.3 am	Г. .4	P 82 LSI Corporati		# 55
Referring to Figure 4 highlight optional fun indicating that dashe SuggestedRemedy Per comment. Proposed Response PROPOSED ACCEF	40-3, since Energy Efficient Eth notions and signals using dashe ed lines denote optional feature <i>Response Status</i> W	L 1		Per co Proposed I PROP CI 40 Healey, Ad Comment	mment. Response OSED ACCEP SC 40.3.1.3 am Type T PHY Control sta le that loc_rcvr	.4 Comment s	P 82 LSI Corporati Status D proposed for F hile SEND_Z is	on Energy Efficient s asserted. Unle	# 55 1000BASE-T, it is ss the definition of
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment. Proposed Response PROPOSED ACCEF	40-3, since Energy Efficient Eth hoctions and signals using dashe ed lines denote optional feature <i>Response Status</i> W PT. <i>P</i> 78	L 1	a note below the figure	Per co Proposed I PROP CI 40 Healey, Ad Comment	mment. Response OSED ACCEP SC 40.3.1.3 am Type T PHY Control sta le that loc_rcvr. is modified, ch	.4 <i>Comment</i> s ate diagram, as _status = OK wh	P 82 LSI Corporati Status D proposed for F hile SEND_Z is	on Energy Efficient s asserted. Unle	1000BASE-T, it is
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment. Proposed Response PROPOSED ACCEF CI 40 SC 40.2.2 Healey, Adam Comment Type E Referring to Figure 4 highlight optional prin	40-3, since Energy Efficient Eth Inctions and signals using dashe ed lines denote optional feature <i>Response Status</i> W PT. <i>P</i> 78 LSI Corporat <i>Comment Status</i> D 40-4, since Energy Efficient Eth mitives using dashed lines and	L 1 ion	a note below the figure # <u>52</u>	Per co Proposed I PROPO CI 40 Healey, Ad Comment In the I possib Sdn[2] Suggested Modify	mment. Response OSED ACCEP SC 40.3.1.3 am Type T PHY Control statle that loc_rcvr is modified, ch <i>Remedy</i> definition of Sd	T. Comment S ate diagram, as _status = OK wh annel C may no n[2] to read:	P 82 LSI Corporati Status D proposed for B nile SEND_Z is ot send zero as	on Energy Efficient s asserted. Unle	1000BASE-T, it is
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment. Proposed Response PROPOSED ACCEF Cl 40 SC 40.2.2 Healey, Adam Comment Type E Referring to Figure 4 highlight optional print that dashed lines de SuggestedRemedy	40-3, since Energy Efficient Eth Inctions and signals using dashe ed lines denote optional feature <i>Response Status</i> W PT. <i>P</i> 78 LSI Corporat <i>Comment Status</i> D 40-4, since Energy Efficient Eth	L 1 ion	a note below the figure # <u>52</u>	Per co Proposed I PROPO CI 40 Healey, Ad Comment In the I possib Sdn[2] Suggested Modify Sdn[2]	mment. Response OSED ACCEP SC 40.3.1.3 am Type T PHY Control sta le that loc_rcvr. is modified, ch Remedy definition of Sd = Scn[2]^TXDr Scn[1]^1 els	T. Comment S ate diagram, as _status = OK wh annel C may no n[2] to read: n[2] if (tx_enable e if (loc_rcvr_sta	P 82 LSI Corporati Status D proposed for E nile SEND_Z is of send zero as	on Energy Efficient s asserted. Unle	1000BASE-T, it is ss the definition of
Referring to Figure 4 highlight optional fur indicating that dashe SuggestedRemedy Per comment. Proposed Response PROPOSED ACCEF C/ 40 SC 40.2.2 Healey, Adam Comment Type E Referring to Figure 4 highlight optional print that dashed lines de	40-3, since Energy Efficient Eth Inctions and signals using dashe ed lines denote optional feature <i>Response Status</i> W PT. <i>P</i> 78 LSI Corporat <i>Comment Status</i> D 40-4, since Energy Efficient Eth mitives using dashed lines and	L 1 ion	a note below the figure # <u>52</u>	Per co Proposed I PROPO CI 40 Healey, Ad Comment In the I possib Sdn[2] Suggested Modify Sdn[2]	mment. Response OSED ACCEP SC 40.3.1.3 am Type T PHY Control sta le that loc_rcvr. is modified, ch <i>Remedy</i> definition of Sd = Scn[2]^TXDr Scn[1]^1 els Scn[2] else	T. Comment S ate diagram, as _status = OK wh annel C may no n[2] to read: n[2] if (tx_enable e if (loc_rcvr_sta	P 82 LSI Corporati Status D proposed for E nile SEND_Z is ot send zero as en-2=1) atus=OK) * (tx	on Energy Efficient sasserted. Unles desired.	1000BASE-T, it is ss the definition of

Healey, Adam LSI Corporation Comment Type E Comment Status D Comment Type E Comment Status D Referring to Figure 40-10a, since Energy Efficient Ethernet is an optional feature, clearly highlight optional states and transitions in the dashed box labeled "optional implementation." EEE mode control register, 7.62, Includes RW bits that a management entity may us request modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no register is maintained reguest modes of operation from the link partner. However, no reguest modes in 7.62. All the file for the local device actually supports a given mode. Comment Type E Comment Status D Retering to Figure 40-14, since Energy Efficient Ethernet is an optional feature, clearly highlight optional functions and gashed lines and add a note below the figure indicating that dashed lines denote optional features. SuggestedRemedy Percosed Response Response Status W PROPOSED ACCEPT I. Proposed	C/ 40 SC 40.3.4	P 83	L 2	# 56	C/ 45	SC 45.2.7	7.15a	P 99	L 18	# 59
Referring to Figure 40-10a, since Energy Efficient Ethernet is an optional feature, clearly highlight optional states and transitions by encapsulating the LP_IDLE state and associated transitions in the dashed box labeled "optional implementation." SuggestedRemedy Per comment. PROPOSED ACCEPT. Indext states and transitions in the abade dox labeled lines and add a note below the figure indicating that dashed lines and sadd a note below the figure indicating that dashed lines and sadd a note below the figure indicating that dashed lines and sadd a note below the figure indicating that dashed lines denote optional features. Nament Type E Comment Status W PROPOSED ACCEPT. Procenter Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W Proposed Response Response Response Status W Procenserial Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status W Proposed Response Response Status M SuggestedRemedy Proposed Response Response Status Status D What does it mean for the Rx PMA/PMD to "receive" LP ide! The LP ide signal is docould by the RX PCS. Presumably, the PCS indicates to the PMA/PMD	lealey, Adam	LSI Corporatio	on		Healey, A	dam		LSI Corporati	ion	
highlight optional states and transitions by encapsulating the LP_IDLE state and associated transitions by encapsulating the LP_IDLE state and associated transitions in the dashed box labeled "optional implementation." request nodes of operation from the link partner. However, no register is maintained reflects whether or not the local device actually supports a given mode. uggested/Remedy Per comment. PROPOSED ACCEPT. via 0 SC 40.4.2 P85 L8 # 57 via 0 SC comment Status D Suggested/Remedy Define EE capabilities register with contents corresponding the modes in 7.62. All the isopation from the link partner. via 0 SC 45.21.2.3a P 96 L51 # 58 via 0 SC 40.4.2 P 96 L38 # 50 via 0 <td>51</td> <td></td> <td></td> <td></td> <td></td> <td>21</td> <td></td> <td></td> <td></td> <td></td>	51					21				
Per comment. roposed Response Response Status W PROPOSED ACCEPT. P85 L8 # 57 V1 40 SC 40.4.2 P85 L8 # 57 V2 41 Sc 40.4.2 P85 L8 # 57 V2 45 Sc 40.4.2 P85 L8 # 57 V2 45 Comment Status D D Proposed Response register with contents corresponding the modes in 7.62. All the isognalitics of the local device. V2 45 Sc 45.2.1.2.10 P96 L38 # 60 PROPOSED ACCEPT. P96 L38 # 60 V4 5 Sc 45.2.1.2.3a P96 L51 # 58 V3 45 Sc 45.2.1.2.3a P96 L51 # 58 V4 5 Sc 45.2.1.2.3a P96 L51<	highlight optional state	s and transitions by encapsula	ating the LP_ID	LE state and	reque	st modes of c	peration fron	the link partner. He	owever, no regist	ter is maintained that
PROPOSED ACCEPT. PROPOSED ACCEPT. V 40 SC 40.4.2 P 85 L 8 # 57 energy refresh. Suggested/Remedy comment Type E Comment Status D Referring to Figure 40-14, since Energy Efficient Ethernet is an optional feature, clearly highlight optional functions and signals using dashed lines and add a note below the figure indicating that dashed lines denote optional features. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. This warrants a similar response to #88, however, if #216 is accepted then the point moot. cl 45 SC 45.2.1.2.1a P 96 L 38 # 60 PROPOSED ACCEPT. Page L 51 # 58 via toposed Response Response Status D Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it subout to experience is related to quiet-refresh cycling, For these reasons, it seems cleaner to associate this bit with the PCS. Suggested/Remedy clarify the definition of this bit or relocate accordingly. Proposed Response Response Status W Proposed Response It would be cleaner to associate this bit with the PCS. Suggested/Remedy Clarify the definition of this bit or relocate accordingly. Proposed Response Response Status W <td></td>										
W 40 SC 40.4.2 P 85 L 8 # 57 Part of the second seco		,			space	e that tells the				
Lealey, Adam LSI Corporation Comment Type E Comment Status D Referring to Figure 40-14, since Energy Efficient Ethernet is an optional feature, clearly highight optional functions and signals using dashed lines and add a note below the figure indicating that dashed lines denote optional features. Proposed Response Status W RuggestedRemedy Per comment. Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. This warrants a similar response to #88, however, if #216 is accepted then the point moot. Cl 45 SC 45.2.1.2.3a P 96 L 51 # 58 Pace Adam LSI Corporation Comment Type Comment Type Comment Type Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it supposed to interpret the code-groups or symb_vectors or) received from the transmit PCS, or is it based on the associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bit or relocate accordingly. Proposed Response Response Status W PROPOSED ACCEPT. Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it supposed to interpret the code-groups or symb_vectors or) received from the transmit PCS, or is it based on the associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bi		•			Suggeste	dRemedy				
Comment Type E Comment Status D Referring to Figure 40-14, since Energy Efficient Ethernet is an optional feature, clearly highlight optional functions and signals using dashed lines and add a note below the figure indicating that dashed lines denote optional features. PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Per comment. Per comment. Per comment. Per comment. PROPOSED ACCEPT. Its is accepted then the point moot. C/ 45 SC 45.2.1.2.1b P 96 L 38 # 60 V 45 SC 45.2.1.2.3a P 96 L 51 # 58 Itealey, Adam LSI Corporation Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it supposed to interpret the code-groups (or data-groups or symb_vectors or) received from the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bit or relocate accordingly.				# 57						
Referring to Figure 40-14, since Energy Efficient Ethernet is an optional feature, clearly highlight optional functions and signals using dashed lines and add a note below the figure indicating that dashed lines denote optional features. <i>BuggestedRemedy</i> Per comment. <i>Proposed Response Response Status</i> W PROPOSED ACCEPT. <i>Cl</i> 45 SC 45.2.1.2.1b P96 L 38 # 60 <i>Cl</i>	Comment Type F	Comment Status D				,	,			
Per comment. Proposed Response Response Status W PROPOSED ACCEPT. C/ 45 SC 45.2.1.2.1b P 96 L 38 # 60 C/ 45 SC 45.2.1.2.3a P 96 L 51 # 58 Comment Type T Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it subposed to interpret the code-groups (or data-groups or symb_vectors or) received from the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bit or relocate accordingly. Clarify the definition of this bit or relocate accordingly.	highlight optional funct indicating that dashed	ions and signals using dashed	d lines and add				ilar response	e to #88, however, if	f #216 is accepte	d then the point is
Proposed Response Response Status W PROPOSED ACCEPT. P 96 L 51 # 58 V4 5 SC 45.2.1.2.3a P 96 L 51 # 58 lealey, Adam LSI Corporation What does it mean for the Rx PMA/PMD to "receive" LP idle? The LP idle signal is decoded by the Rx PCS. Presumably, the PCS indicates to the PMA/PMD that the lo signal it is about to experience is related to quiet-refresh cycling and not a loss of link Furthermore, in 1000BASE-T, it is possible to receive and LP idle signal without quie refresh cycling. For these reasons, it seems cleaner to associate this bit with the Rx I supposed to interpret the code-groups (or data-groups or symb_vectors or) received from the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. Response Status W RuggestedRemedy Clarify the definition of this bit or relocate accordingly. PROPOSED ACCEPT IN PRINCIPLE. See #91	,				C/ 45	SC 45.2.	.2.1b	P 96	L 38	# 60
PROPOSED ACCEPT. Comment Type T Comment Type T Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it supposed to interpret the code-groups (or data-groups or symb_vectors or) received from the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bit or relocate accordingly. Clarify the definition of this bit or relocate accordingly. We proposed Accept IN PRINCIPLE.					Healey, A	dam		LSI Corporati	ion	
A 45 SC 45.2.1.2.3a P 96 L 51 # 58 ealey, Adam LSI Corporation Issues of the control of the		1			Comment	Type T	Comr	nent Status D		
supposed to interpret the code-groups (or data-groups or symb_vectors or) received from Clarify the definition of this bit or relocate accordingly. supposed to interpret the code-groups (or data-groups or symb_vectors or) received from Clarify the definition of this bit or relocate accordingly. Assuming there is no breakdown in the communication between the PCS and PMA, it Proposed Response Response Status W SuggestedRemedy Clarify the definition of this bit or relocate accordingly. See #91	C/ 45 SC 45.2.1.2. Healey, Adam	3a P 96 LSI Corporatio	• •	# 58	decoo signal Furthe	led by the Rx I it is about to ermore, in 100	PCS. Presur experience is 00BASE-T, it	nably, the PCS india s related to quiet-rel is possible to receiv	cates to the PMA fresh cycling and ve and LP idle sig	/PMD that the loss of not a loss of link. gnal without quiet-
the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. <i>Proposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE. See #91	What does it mean to h	nave the transmit PMA/PMD "	receive" low po	wer idle signaling? Is it	Suggeste	dRemedy				
Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. <i>uggestedRemedy</i> Clarify the definition of this bit or relocate accordingly. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See #91					Clarify	y the definition	n of this bit or	relocate according	ly.	
seems it would be cleaner to associate this bit with the PCS. PROPOSED ACCEPT IN PRINCIPLE. uggestedRemedy See #91 Clarify the definition of this bit or relocate accordingly. See #91					Proposed	Response	Respo	nse Status W		
Clarify the definition of this bit or relocate accordingly. See #91					PROF	POSED ACCE		CIPLE.		
	,	this bit or relocate accordingly	y.		See #	91				
roposed Response Response Status W	Proposed Response	Response Status W								
PROPOSED ACCEPT IN PRINCIPLE.		,								

See #91

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

Cl 45	SC 45.2.1.2.3	a Ps	97 L3	# 61	C/ 45 SC 45.2	.7.15a.1 P 99	L 48	# 62
Healey,	Adam	LSI C	Corporation		Healey, Adam	LSI Corpo	oration	
Comme Wha deco sign Furt refre Suggest Clar Propose	nt Type T at does it mean for t oded by the Rx PCS hal it is about to expe thermore, in 1000B/ esh cycling. For the tedRemedy rify the definition of t ed Response DPOSED ACCEPT	Comment Status ne Rx PMA/PMD to . Presumably, the F rience is related to SE-T, it is possible e reasons, it seems his bit or relocate ad Response Status	D "receive" LP idle PCS indicates to t quiet-refresh cycl to receive and LF s cleaner to assoc	? The LP idle signal is he PMA/PMD that the loss ing and not a loss of link. ? idle signal without quiet- ciate this bit with the Rx PC	Comment Type T Regarding the 100 f Based on the prer PHY layer circuitry that do not require upper bound on th Also, based on the be larger than the the local device to local device that h than the PHY can A link partner with	Comment Status D DOBASE-T wakeup time advert nise that longer wake time control y may be put into a deeper slee a wake time as fast as 16 us he advertised wake time. The premise that management m minimum value supported by i indicate that it supports a fas as prioritized power savings a support but would be able to an application that requires la able to arbitrate a suitable wake	isement responds to addition ep state) and there there is an advant ay manipulate the the PHY, this mech er wake time than nd therefore advert support the faster w wer latency, and re	will exist applications age to increasing the advertised wake time to panism does not allow advertised. Consider a ises a slower wake time rake time if necessary. equests a faster wake
					SuggestedRemedy Proposal for modi	tually supports the desired water fied 1000BASE-T wake time r ame healey_01_1108.pdf).		esented to the Task

PROPOSED REJECT.

There is currently no register defined for negotiated wake times corresponding to 40.4.5.2. If comment #209 is accepted then the point is moot.

Otherwise, if a different proposal is accepted then the register must be changed to match that proposal.

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

<i>CI</i> 48 S Healey, Adam	SC 48.2.4.2	P 110 LSI Corporatio	L 18	# 63	<i>Cl</i> 48 Healey, Ada	SC 48.2.4.2	P 108 LSI Corpora	L 39 tion	# 65		
Comment Type	e T Comm	nent Status D					Comment Status D				
 Comment Type T Comment Status D "Low Power Idle is indicated by inserting /D20.5/ randomly in one column of each row during I ." A /D20.5/ code-group is randomly inserted into one LANE of each K or R COLUMN. I also includes the align column A , and inserting /D20.5/ into an A will result in repeated deskew_error indications and eventually loss of alignment indication (align_status = FAIL). 						Comment Type T Comment Status D The text in 48.2.4.2 and Table 48-2 do not adequately describe the low power idle decodin process. The normative receive process is defined in 48.2.6.2.4 and the PCS receive state diagram (Figure 48-9). Per Figure 48-9, I believe Low Power Idle would be decoded as K30.7 (Invalid XGMII character) which contrary to the definition in this subclause. SuggestedRemedy Modify the PCS receive state diagram (Figure 48-9) to clearly define Low Power Idle					
	ggestedRemedy Correct definition per comment.						odifications as optional, and				
Proposed Resp PROPOSE	ponse Respor ED ACCEPT IN PRINC	nse Status W CIPLE.			Proposed R PROPO		Response Status W				
Add after 'd	during I '				See #64	4					
'to replace	K or R (not A)'				C/ 48	SC 48.2.4.2	<i>P</i> 110	L 18	# 66		
3/ 48 S	SC 48.2.4.2	P 108	L 39	# 64	Healey, Ada		LSI Corpora	tion			
ealey, Adam		LSI Corporation	on		Comment T	51	Comment Status D e standard know if the imple	montation mosts	the requirement of		
Comment Type	e T Comm	nent Status D			random		e stanuaru know ir the imple	mentation meets	the requirement of		
process. Tl 48.2.6.2.1 believe Lov	48.2.4.2 and Table 48 he normative transmit and the PCS transmit w Power Idle would be the definition in this s	process is defined i source state diagra encoded as K30.7	in m (Figure 48-6).			isly define the o sive column.	desired progression of /D20 Response Status W	5/ code-group ins	sertion for each		
SuggestedRen	nedy				PROPO	SED ACCEPT	, IN PRINCIPLE.				
Idle encodi appropriate	state diagram (Figur tions as optional, ar	re 48-6) to clearl nd define new sta	y define Low Power ate variables as	The user of the standard has already overcome his fear of "randomness" when he implemented bullet item "e) When not sending an A , either K or R is sent with a random uniform distribution between the two."							
Proposed Resp	ponse Respor ED ACCEPT IN PRINC	nse Status W			Howeve	er the term "rai	ndom" needs a little more cl	arity			
	changes will be required and the operation of L				Replace	e "inserting /D2	0.5/ randomly in one colum	"			
					with "ins	serting /D20.5/	with a random uniform distr	bution in one of t	he columns"		

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

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

Nov 2008

C/ 49 SC 49.2.4.7 P 111 L 45 # 67 Healey, Adam LSI Corporation	C/ 70 SC 70.6.10.5.2 P 155 L 6 # 70 Healey, Adam LSI Corporation						
Comment Type T Comment Status D In Table 49-1, the possible 8B/10B codes for Low Power Idle include /D20.5/. SuggestedRemedy Add /D20.5/ to the list with reference to 48.2.4.2. Proposed Response Response Status W PROPOSED ACCEPT. V V V V	Comment Type T Comment Status D Clause 70 defines 1000BASE-KX PMD sub-layer but the LPI Transmit state diagram (Figure 70-1) includes PCS layer functions such as low power idle encoding. The definition of these functions is misplaced and should be properly described in Clause 36 (the subject of a different comment). The functions defined in this clause should be limited in scope to the PMD-level functions. PCS state information required to the implement PMD functions, and vice versa, should be communicated to the PMD using service interface primitives.						
Cl 70 SC 70.1 P 149 L 33 # 68 Healey, Adam LSI Corporation	It is imperative to preserve the IEEE 802.3 layering model. In the future, it is likely that additional 1000BASE-X PMDs will be amended to support EEE. It is wasteful to repeat the definition of the PCS low power idle encoding for each PMD, and potentially disasterous if the definitions are inconsistent.						
Comment Type E Comment Status D	SuggestedRemedy						
It seems like "deactivates transmit" should be "deactivates transmit functions." SuggestedRemedy	A proposal will be made to the Task Force illustrating the layer model and modifications required to adhere to the layer model (tentatively named healey_02_1108.pdf).						
Per comment.	Proposed Response Response Status W						
Proposed Response Response Status W PROPOSED ACCEPT.	response to be based on approval of presentation.						
	CI 70 SC 70.6.10.5.2 P156 L1 # 71						
C/ 70 SC 70.3a P 149 L 47 # 69	Healey, Adam LSI Corporation						
lealey, Adam LSI Corporation	Comment Type T Comment Status D						
Comment Type E Comment Status D I believe the feature in question is actually "Energy Efficient Ethernet" and not "Low Power Idle." SuggestedRemedy Update text per comment. Update text per comment.	Clause 70 defines 1000BASE-KX PMD sub-layer but the LPI Receive state diagram (Figure 70-2) includes PCS layer functions such as low power idle decoding. The definition of these functions is misplaced and should be properly described in Clause 36 (the subject of a different comment). The functions defined in this clause should be limited in scope to the PMD-level functions. PCS state information required to the implement PMD functions, and vice versa, should be communicated to the PMD using service interface primitives.						
Proposed Response Response Status W PROPOSED ACCEPT. Editor will change "Low Power Idle" to "Energy Efficient Ethernet".	It is imperative to preserve the IEEE 802.3 layering model. In the future, it is likely that additional 1000BASE-X PMDs will be amended to support EEE. It is wasteful to repeat the definition of the PCS low power idle encoding for each PMD, and potentially disasterous if the definitions are inconsistent.						
Earth ministrange Low Forther die to Energy Enrolont Ethomot .	SuggestedRemedy						
	A proposal will be made to the Task Force illustrating the layer model and modifications required to adhere to the layer model (tentatively named healey_02_1108.pdf).						
	Proposed Response Response Status W						
	reponse to be based on approval of presentation.						

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

<i>Cl</i> 70 <i>SC</i> 70.6.10.2 Healey, Adam	P 152 LSI Corporation	L 19	# 72	C/ 70 SC 7 Healey, Adam	70.6.10.3	P 152 LSI Corporation	L 32 on	# 75
Comment Type T T_WL does not appear	Comment Status D to be used.			Comment Type I do not unders transmitter cea		Comment Status D purpose of T_SR. The receiv mission.	ver SLEEP perio	od ends when the
SuggestedRemedy Delete the parameter de	efinition			SuggestedRemedy	У			
Proposed Response	Response Status W					finition, delete associated st the RX_SLEEP state (Figur		nd delete it as a
PROPOSED ACCEPT.				Proposed Respons				
C/ 70 SC 70.6.10.2	P 152	L 9	# 73	PROPOSED F	REJECT.			
Healey, Adam <i>Comment Type</i> T	LSI Corporation Comment Status D					ion is based on Chou_01_0 cation to parameter descripti		
Define a minimum value	e for T_SL. Obviously, T_SL =	0 is not accep	table.	C/ 70 SC 7	70.6.10.3	P 152	L 41	# 76
SuggestedRemedy				Healey, Adam		LSI Corporation	on	
	lue of T_SL. As a placeholder, grance. All timer values should	- 00		Comment Type T_UR does no	T ot appear t	Comment Status D		
Proposed Response need consensus from g	Response Status W roup.			SuggestedRemedy Delete the part	y			
Cl 70 SC 70.6.10.2 Healey, Adam	P 152 LSI Corporation	L 16	# 74	Proposed Respons PROPOSED A		Response Status W N PRINCIPLE.		
Comment Type T Define a minimum value	Comment Status D e for T_UL. Obviously, T_UL =	0 is not accep	table.	This value can	n be define	d a the Min for T_UL per co	mment #74.	
	lue of T_UL. As a placeholder, erance. All timer values should							
Proposed Response	Response Status W							

need consensus from group

proposed responses IEEE		IEEE P	802.3az D1.0 Energy	Efficient Et	hernet comm	ents		Nov 2008
C/ 70 SC 70.6.4a	P 151	L 25	# 77	C/ 40	SC 40.4.5.1	P86	L 44	# 79
Healey, Adam	LSI Corporation			Healey, A	dam	LSI Corporatio	n	
Referring to Table 39-1, the term reference is ambiguous. In addit used in Table 39-1 and constitut defines what one might interpret minimum differential sensitivity of the -CX value be used?	ion, "signal_detect de es another ambiguous to be the thresholds i vhich has no compara	assertion thres s reference. Fir n terms of the 7 ble value in 10	hold" is not a term ally, Table 39-1 1000BASE-CX 00BASE-KX. Should	imple OFF. diagra (Figu diagra	mented, loc_lpi_ This will prohibit am, part a (Figur re 40-15b), and c am (Figure 40-9)		E and, as a con IDLE state in th Y Control state I PCS Local LF	asequence, lpi_mode is ne PCS Receive state e diagram, part b PI Request state
The cross-reference to Table 39 Define the signal_detect assertion directly in 70.6.4a.				by ma	ar conditions sho anagement. edRemedy	uld be applied when the Energ	y Emicient Ethe	met reature is disabled
SuggestedRemedy					comment.			
Remove cross reference to Tabl subclause.	e 39-1 and specify the	e assertion/de-a	assertion criteria in this	Proposed	l Response	Response Status W		
Proposed Response Respo PROPOSED ACCEPT IN PRIN Editor needs recommended text detect here.		e-assertion crit	iera for PMD signal	Wher cited "norm As po	variables should nal" 1000BASE-T	Ffficient features are not imple be defined per the comment. T operation.	his has the effe	ect of restoring
Cl 70 SC 70.6.5 Healey, Adam	P 151 LSI Corporation	L 36	# 78	C/ 40	SC 40.4.5.2	P87	L 25	# 80
	•			Healey, A	dam	LSI Corporatio	n	
Comment Type T Comm The wake-up time for the 1000B activate the far-end transmitter. a compliant input signal upon wi included). Neither of these aspe	Furthermore, the rece hich to base timing rec	iver should hav overy and ada	e some assurance of ptive equalization (if	Comment Expa choic	<i>t Type</i> T nding the range of e without advers	Comment Status D of lpi_quiet_timer to at least +/- ely affecting quiet-refresh cyclir		aden implementation
SuggestedRemedy			,	00	edRemedy	ar range to 20 to 24 mg		
Specify that the transmitter:					lge ipi_quiet_time I Response	er range to 20 to 24 ms.		
 Shall deliver a signal that will activation Shall deliver a fully compliant following transmitter activation 	-		-	,	POSED ACCEPT	Response Status W		

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

This may not belong in 70.6.5, but certainly within 70.6. Editor will propose new text in an appropriate section.

CI 40	SC 40.4.5.2	P 88	L 31	# 81	C/ 40	SC 4	40.4.5.1	P 86		L 40	# 83
lealey, Ada	m	LSI Corporation	1		Healey, Ad	dam		LSI Co	rporatio	n	
omment Ty	/ре Т	Comment Status D			Comment	Туре	т	Comment Status	D		
MASTER	R will be require	Efficient Ethernet PHY Control ed to decode rem_lpi_req from e MASTER (e.g. the timing loo	the SLAVE wh		signal	_detect	function for	y regarding the definiti or Energy Efficient Eth agram, such ambiguit	ernet. T	To ensure corre	ne addition of the ct interpretation of the
transition UPDATE low powe	ns to WAIT_QU E state. Prior to	cur when the MASTER's lpi_up JIET, transmitting zeros to the the SLAVE detecting zeros fro STER will need to detect the S	SLAVE while the master of the second	ne SLAVE is still in the R, it chooses to exit	OK: T NOT_ It seer	he desc OK: The ns to fol	rambler has descram	n of scr_status, it may as achieved synchron ibler is not synchroniz once you have determi), the scrambler canno	ization. ed. ned the	re is no input s	-
		ill be open for a very short peri			Suggestee	dRemed	lv		-		
Howeve	r a very simple	change to lpi_update_timer ca	n eliminate this	s corner case.			-	Efficient Ethernet, wh	en sign	al_detect = FAI	_SE, scr_status must
		e the duration of MASTER lpi_				to NOT			Ũ		
MASTER refresh t	lpi_update_timer. This ensures that the SLAVE always enters WAIT_QUIET before the MASTER, and hence maintains timing. In addition, it has negligible impact on the total refresh time since the SLAVE transition to WAIT_QUIET will force the MASTER to transition to WAIT_QUIET.				Proposed PROF	•	se ACCEPT.	Response Status	W		
uggestedR	emedy										
		of lpi_update_timer for the SL the MASTER is 0.23 to 0.25 m		0.2 ms and duration							
Proposed Re PROPO	esponse SED ACCEPT.	Response Status W									
C/ 40 lealey, Ada	SC 40.4.5.1 m	P 87 LSI Corporation	L 15	# 82							
	ria of the asse	Comment Status D rtion and de-assertion of signa d de-assertion must be define t									
SuggestedR	emedy			•							
Proposa	I to be presente	ed to the Task Force (tentative	name healey_	01_1108.pdf).							
Proposed Re PROPO	•	Response Status W IN PRINCIPLE.									

Response pending planned presentations on this subject.

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 40 SC 40.4.2.4	P 86	L 24	# 84	CI 40	SC 40.4.2.4	P 86	L 20	# 86			
Healey, Adam	LSI Corporation			Healey, Adar	n	LSI Corpora	ation				
manner that was not inte	Comment Status D ames may bias the perception ended. Additional text may be uce the possibility of misunder	provided to 40	.4.2.4 to guide a user	Comment Ty Incorrect SuggestedRe Per com	state diagrar emedy	Comment Status D n variable name: "tx_wake_t	timer" should be "I	pi_waketx_timer"			
the WAKE_TRAINING s	s whether the adaptive filter of tate. The intended behavior w ATE state per the current text	as to have the		Proposed Re PROPOS	sponse SED ACCEP1	Response Status W					
"If both PHYs continue to	o request low power operation inue to transmit for time define	, then both PH		<i>Cl</i> 40 Healey, Adar	SC 40.4.2.4 n	P 86 LSI Corpora	L 32 ation	# 87			
intended to allow the rer	note PHY to refresh its receive s) and thereby track long term	er state (e.g. ti	ning recovery,	<i>Comment Ty</i> Gramma		Comment Status D should be "both"					
It was not intended that adaptive filter coefficient would be updated during WAKE_TRAINING, and attempting to do so could makes the implementation subject to undesirable corner cases. However, this is not clearly stated. It is proposed that the current text be updated to make the intention clear.					SuggestedRemedy Per comment. Proposed Response Response Status W PROPOSED ACCEPT.						
SuggestedRemedy				C/ 45	SC 45.2.7.1	3a P 97	L 42	# 88			
Clearly state that adaptiv	ve filter coefficients should be nd not in the WAKE_TRAININ			Healey, Adar	n	LSI Corpora	ation				
Proposed Response PROPOSED ACCEPT II	Response Status W			constrain	ertisement re the modes a	Comment Status D gister, 7.60, includes R/W bi dvertised to the link partner, abilities of the local device.					
C/ 40 SC 40.4.2.4 Healey, Adam	P 86 LSI Corporation	L 16	# 85	EEE ope	ration for 100	5.2.6.13a.1 (and other subcl GBASE-KR" How does the on for 10GBASE-KR?	auses), state that management enti	"If the device support ty know the device			
Comment Type E Grammar: "sequences" :	Comment Status D should be "sequence"				EE capabilitie	es register with contents ider					
SuggestedRemedy Per comment.				Next pag device.	e bit). All bits	in this register are RO, and	will reflect the cap	babilities of the local			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Re PROPOS		Response Status W					
				المعاملة من							
				Add regis	ster 3.20 EEE	Capability register					

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

proposed responses IEEE IEEE IEEE P802.3az D1.0 Energy	Efficient Ethernet comments Nov 2008
CI 45 SC 45.2.7.14a P 99 L 23 # 89 Healey, Adam LSI Corporation LSI Corporation	C/ 45 SC 45.2.1.2.1a P 96 L 39 # 92 Healey, Adam LSI Corporation
Comment Type T Comment Status D Referring to Table 45-145, bit 15, not bit 10, is the Next page bit. However, it is not clear that this should be defined here. The scope of this register should be constrained to the unformatted code field. SuggestedRemedy Change Table 45-145, 7.60.10 to Reserved, Ignore on read. Proposed Response Response Status W PROPOSED ACCEPT. V	Comment Type E Comment Status D "The receive link status bit shall be implemented with latching high behavior." This is the "Tx LP idle received" bit. SuggestedRemedy Change bit name per comment. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.
C/ 45 SC 45.2.7.15a P 99 L 23 # 90 Healey, Adam LSI Corporation LSI Corporation Comment Type T Comment Status D Referring to Table 45-146, bit 15, not bit 10, is the Next page bit. However, it is not clear	Change "The receive link status bit shall be implemented with latching high behavior." To "This bit shall be implemented with latching high behavior." 2 instances - 45.2.1.2.1a and 45.2.1.2.1b
that this should be defined here. The scope of this register should be constrained to the unformatted code field. SuggestedRemedy Change Table 45-146, 7.62.10 to Reserved, Ignore on read. Proposed Response Response Status W PROPOSED ACCEPT.	CI 45 SC 45.2.1.2.1b P 96 L 46 # 93 Healey, Adam LSI Corporation E Comment Status D "The receive link status bit shall be implemented with latching high behavior." This is the "Rx LP idle received" bit.
Cl 45 SC 45.2.1.2.1a P 96 L 35 # 91 Healey, Adam LSI Corporation Comment Type T Comment Status D What does it mean to have the transmit PMA/PMD "receive" low power idle signaling? Is it supposed to interpret the code-groups (or data-groups or symb_vectors or) received from the transmit PCS, or is it based on the assertion of some status flag by the PCS? Assuming there is no breakdown in the communication between the PCS and PMA, it seems it would be cleaner to associate this bit with the PCS. SuggestedRemedy Clarify the definition of this bit or relocate accordingly.	SuggestedRemedy Change bit name per comment. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See #92
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. The four LP Idle bits in register 1.1 should have been placed in the PCS register space. Move all four bits to register 3.1, bits 8-11.	

Comment ID # 93

Page 19 of 70 11/4/2008 1:52:39 PM

Cl 22 SC 22.2.2.9a P 33 L 4 # 94 CHOU, JOSEPH REALTEK SEMICON	CI 45 SC 45.2.1.2.3a P 96 L 52 # 96 Koenen, David Hewlett Packard						
Comment Type TR Comment Status D	Comment Type T Comment Status D						
Need to modify the Figure 22-9a and the third paragraph of this subclause to comply to baseline proposal by extending several clocks after the assertion of LP IDLE command of	Should bit 1.1.4 indicat the the transmit PFA/PMD is currently transmitting low power idles signal instead of receiving them?						
MII. SuggestedRemedy Add the following statements in subclause as follows and modify Fig 22-9a accordingly. "The MAC device may halt RX_CLK at any time more than 9 clock cycles after the start of the low power idle state as shown in Figure 22-9a if the RX_CLK_stoppable bit is asserted" Proposed Response Response Status W	SuggestedRemedy Change "receiving" to "transmitting" in this paragraph. Proposed Response Response Status W PROPOSED REJECT. This is a matter of semantic preference. The sublayer is receiving and transmitting low						
PROPOSED ACCEPT IN PRINCIPLE.	power idles. The current wording is unambiguous, so the editor suggests no change is necessary.						
See text from #242. Modify the figure to show (at least) 9 cycle delay.	C/ 45 SC Table 45-145 P 98 L 18 # 97 Koenen, David Hewlett Packard Hewlett Packard						
CHOU, JOSEPH REALTEK SEMICON Comment Type TR Comment Status D Need to describe clearly where rx_lpi comes from and how it interact with PMD sublayer. SuggestedRemedy The signal rx_lpi comes from PCS sublayer and is defined as the primitive PMA_RXLPI.request (rx_lpi). It is generated by PCS is intended to pass to PMD sublayer to control the duration of Signal Detect assertion and deassertion time. Modify Table 25-1 (by adding this primitive).	Missing support for 1000Base-KX. Please add to table. SuggestedRemedy Change definition of bit 7.60.4 to read: 1000BASE-KX 1 = EEE is supported for 1000BASE-KX R/W 0 = EEE is not supported for 1000BASE-KX Proposed Response Response Status W PROPOSED ACCEPT.						
subclause 25.4.11.3, and 25.4.11.4 to clarify the functions. Proposed Response Response Status W PROPOSED ACCEPT.	Cl 45 SC 45.2.7.13a P 98 L 40 # 98 Koenen, David Hewlett Packard Comment Type T Comment Status D						
	Missing section on definition for 1000BASE-KX, please add. <i>SuggestedRemedy</i> Add a section under 45.2.7.13a for "1000BASE-KX EEE Supported (7.60.4)"						
	If the device supports EEE operation for 1000BASE-KX as defined in 70.3a, and EEE operation is desired, this bit shall be set to 1.						
	Proposed Response Response Status W PROPOSED ACCEPT.						

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

Cl 45SC Table 45-146P 99L 31# 99Koenen, DavidHewlett Packard	C/ 78 SC 78.1.2 P 188 L 35 # 102 Koenen, David Hewlett Packard Hewlet					
Comment Type T Comment Status D Support for 1000BASE-KX in the EEE mode control register.	Comment Type T Comment Status D Missing 1000BASE-KX PHY in objectives.					
SuggestedRemedy For bit 7.62.2 Change to:	SuggestedRemedy Add 1000BASE-KX to a sub-bullet under a.)					
1000BASE-KX 1 = Reduced energy refresh for 1000BASE-KX LPI R/W 0 = Normal engergy refresh for 1000BASE-KX LPI	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.					
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	See response to #249					
There is no function to reference, therefore the registers should be deleted. See #216	C/ 78 SC 78.1.3 P 189 L 1 # 103 Koenen, David Hewlett Packard Hewlett					
C/ 45 SC 45.2.7.15a P 100 L 12 # 100 Koenen, David Hewlett Packard He	Comment Type E Comment Status D Capitalize Low Power mode.					
Comment Type T Comment Status D Need to add description for 1000BASE-KX reduced energy bit	SuggestedRemedy Change from low to Low.					
SuggestedRemedy Add the following section in 45.2.7.15a:	Proposed Response Response Status W PROPOSED ACCEPT.					
1000BASE-KX reduced energy (7.62.2)	C/ 78 SC 78.1.3 P 189 L 39 # 104 Koenen, David Hewlett Packard					
If the device supports reduced energy refresh cycle for 1000BASE-KX LPI as define in 70.3.x, this bit shall be set to 1. If this bit is set for both the local device and the link partner then both shall operate LPI using the reduced energy method.	Comment Type E Comment Status D					
Proposed Response Response Status W PROPOSED ACCEPT.	Make case for signal names in paragraph 78.1.3 consistance with definitions in 78.2.2. SuggestedRemedy					
See also #216	Make signal name case consistant for: LP_SLEEP & LP_WAKE					
C/ 45 SC 45.2.7.15a P 100 L # 101 Koenen, David Hewlett Packard Hewle	Proposed Response Response Status W PROPOSED ACCEPT.					
Comment Type E Comment Status D Several paragraphs have duplicate "the the" in the last sentence.	"LP_SLEEP" will be replaced with "LP_Sleep" "LP_WAKE" will be replaced with "LP_Wake"					
SuggestedRemedy Fix.						
Proposed Response Response Status W PROPOSED ACCEPT 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 78 SC 78.3 P 191 L 46 # 105	CI 70 SC 70.6.10.2 P152 L7 # 108
Koenen, David Hewlett Packard	Hajduczenia, Marek ZTE Corporation
Comment Type E Comment Status D	Comment Type E Comment Status D
Paragraph should include backplane PHYs: KX, KX4, KR for Auto-Negotiation.	On page 152 there are two tables without numbers and without indication whether they modify any existing table or are completely new tables
SuggestedRemedy	SuggestedRemedy
Include sentence for backplane PHY's Autonegotiation method. Allow editor to include as they see fit.	Either add titles and reference them in the text, or point to table which they replace / modify
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE.
Editor will include clause 73 AN overview to cover backplane PHY's.	Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table.
C/ 78 SC 78.3 P 102 L 1 # 106 Koenen, David Hewlett Packard	C/ 72 SC 72.6.11.4.1 P 179 L 31 # 109
	Hajduczenia, Marek ZTE Corporation
Comment Type E Comment Status D Many typos and grammatical errors in top paragraph, looks rushed.	Comment Type E Comment Status D
	Missing space between definitions of "tx_ts_timer_done" and "wake_alert" blocks. Please
SuggestedRemedy	insert it
Fix grammatical errors as editor sees fit to do so.	SuggestedRemedy
Proposed Response Response Status W	As per comment.
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W
See reponses to comments ## 253, 254.	PROPOSED ACCEPT.
Editor would appreciate more constructive approach - comment-wise and suggested	CI 78 SC 78.2.2 P191 L 19 # 110
remedy as one - next time around.	Hajduczenia, Marek ZTE Corporation
C/78 SC 78.4.2.2 P 193 L 47 # 107	Comment Type E Comment Status D
łajduczenia, Marek ZTE Corporation	This subclause is said to define certain codewords and signals. It would be nice to provide
Comment Type E Comment Status D	a reader with references to locations where they are defined / described.
"Receive Tw_sys, 2 octets, is the time, in microseconds, that the system is requesting that	SuggestedRemedy
the link partner wait before it starts to transmit data following Low Power Idle." poor English	As per comment
···	Proposed Response Response Status W
SuggestedRemedy Change to "Receive Tw_sys (2 octets wide) is the time (expressed in microseconds) that	PROPOSED REJECT.
the system is requesting the link partner to wait before it starts transmitting data following the Low Power Idle."	Comment is not clear. It is about of referencing reader to the associated subclauses where 78.2.2 definitions appear first?
Proposed Response Response Status W	
· · · · · · · · · · · · · · · · · · ·	

Comment ID # 110

Page 22 of 70 11/4/2008 1:52:39 PM

proposed response	s IEEE	IEEE I	P802.3az D1.0 Energy I	Efficient Et	hernet comm	ents		Nov 2008
C/ 78 SC 78.4.2 Hajduczenia, Marek	.1 P 193 ZTE Corporatio	L 40	# 111	C/ 00 Hajduczei	SC 0 nia, Marek	P11 ZTE Corporatio	L 7 n	# 114
waiting before it star	Comment Status D cottes, is the time, in microsecon ts to transmit data following Low F			latest	Bav extended the	Comment Status D list of special symbols and oper ot sure whether it is already publi		
	t Tw_sys (2 octets wide) is the tim le of waiting before it starts transn			Upda		cial symbols and operators as pe	er changes int	roduced in P802.3av.
Proposed Response PROPOSED ACCEI	Response Status W				I Response POSED ACCEP	Response Status W T.		
C/ 71 SC 71.3a Hajduczenia, Marek	P 160 ZTE Corporatio	L 4	# 112		SC 72.3a nia, Marek	P 171 ZTE Corporatio	L 50 n	# 115
	Comment Status D ess "48.2.x", "71.6.x", "71.6.x", "70 ne draft or any other specification.	.6.x". Need to	be resolved to a	There	k it is not very co e are other locati	Comment Status D mmon to use "a" and "b" in the s ons in the draft where a similar c		
SuggestedRemedy As per comment.				Pleas and th	hen create two lo	" and "b" in subclause numbers. ower level ones or change "72.3a	a PCS require	ments for Low Power
Proposed Response PROPOSED ACCEI	Response Status W PT.			Powe		uirements for Low Power Idle" a MA requirements for Low Power tely.		
References will be re			" [110]		I Response POSED REJECT	Response Status W		
C/ 00 SC 0 Hajduczenia, Marek Comment Type E	P 00 ZTE Corporatio Comment Status D	L 00 n	# 113	C/ 00 Hajducze	SC 0 nia, Marek	P 00 ZTE Corporatio	L 0 n	# 116
File 3av_0811_hajdi	uczenia_1.pdf contains a series of ting them into separate comments				"Low Power Idle	Comment Status D " is used heavily in this docume abbreviations (1.5)	nt, making it a	n ideal target for
SuggestedRemedy As per comment.					dRemedy LPI <tab>Low Po</tab>	ower Idle" to Subclause 1.5. Crea	ate 1.5 as nec	essary.
Proposed Response PROPOSED ACCEI Will mark up detailed	Response Status W PT IN PRINCIPLE. d changes in a separte sheet.			•	l Response POSED ACCEP	Response Status W T.		

Comment ID # 116

Page 23 of 70 11/4/2008 1:52:39 PM

proposed responses	EEE	IEEE F	P802.3az D1.0 Energy	Efficient Et	hernet comm	ents		Nov 2008
Cl 72 SC 72.6.4 Hajduczenia, Marek	P 173 ZTE Corporatio	L 1 on	# 117	<i>Cl 72</i> Hajduczei	SC 72.6.11. nia, Marek	4.1 P 178 ZTE Corporatio	L 1 on	# 119
Either divide the section table is not aligned to a SuggestedRemedy As per comment. Proposed Response PROPOSED REJECT	Response Status W	le orphan conti	ol and make sure the	Some are ei can b (2) wł Suggeste (1) cla (2) de	ave not found an o use cases in 80 numerated and c e asserted ? hat is a "variant" <i>dRemedy</i> arify the use of "e	Comment Status D ny precedence for the use of ter 2.3-2008 though in the manage escribed. Is the list of possible variable ? This terms is somehor enumerated variables" ant variable" is Response Status W	ment section a values comple	and all possible values te or any other values
Cl 72 SC 72.6.4a Hajduczenia, Marek Comment Type E	P 173 ZTE Corporation Comment Status D	L 32	# 118	ON or variat 2.) O	r OFF, Black or V ole, it's normal pr VK. This is use t	y reserved for True or False, wh White, etc. In assigning some ogramming practice to define it o encompase a variable numbe ic. I'm going to use the Basic F	thing other that as an enumer r of elements a	n True/False to a ated type variable. and sizes that are
Simplyfing "is used as presence.". Also applicable on: page 151, line 20 page 161, line 31	an indicator of signal presence	e." to "is used to	o indicate signal	some 	other type. A V SC 72.6.11.		t can contain a	
SuggestedRemedy As per comment				Comment	<i></i>	ZTE Corporatic Comment Status D		
Proposed Response PROPOSED ACCEPT	Response Status W			other Suggeste As pe	values." this sen	t contains the state of the transitence is way off the edge. Pleas Response Status W		

PROPOSED ACCEPT IN PRINCIPLE.

CI 72 SC 72.6.11.4.3 P 180 L 9 # 121 Hajduczenia, Marek ZTE Corporation	C/ 78 SC 78.1.1 P 188 L 22 # 124 Hajduczenia, Marek ZTE Corporation
Comment Type ER Comment Status D "This counter counts the number of training frames during the training frames sent." - this sentence is either incomplete or I am missing something. SuggestedRemedy Either complete the sentence or clarify it. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type ER Comment Status D "10 Megabit" should be probably "10 Mb/s". The same in line 45 on the same page. SuggestedRemedy As per comment Proposed Response Response Status W PROPOSED ACCEPT.
Will change to:	C/ 78 SC 78.1.1 P 188 L 23 # 125 Hajduczenia, Marek ZTE Corporation Televice Televice
REFRESH states. Cl 00 SC 0 P 00 L 0 # 122 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D Figures in this draft contain "<=" characters instead of proper "Assignment operator", which can be found in the Symbols' table.	 "legacy" - avoid using this term. It make readers feel that the refereenced technology is outdated. SuggestedRemedy IMHO strike it out. It is not necessary. Can be replaced with reference to specific clause which defined 100BASE-T PHY. Search globally and eliminate any "leagy" keywords (ther are in total 4 occurences in the draft, all added to the existing specifications). Proposed Response Response Status W PROPOSED REJECT. Editor does not feel at that term "legacy" means outdated technology, but rather accepted term for any deployed technology - which emphasizes the need for interoperability and coexistence when any newer technology being invented. This could be personal view. Open to the discussion and other opinions.
CI 72 SC 72.7.4.4 P 187 L 29 # 123 Hajduczenia, Marek ZTE Corporation Image: Comment Type ER Comment Status D (1) Empty element CF48 in the PICS table in 72.7.4.4. (2) missing references and descriptions for elements CF43 - CF47 SuggestedRemedy (1) Either remove or fill in with appropriate text, if needed. (2) correct the missing references and fill in the text descriptions, as necessary Proposed Response Response Status W PROPOSED ACCEPT. V	

Comment ID # 125

Page 25 of 70 11/4/2008 1:52:39 PM

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 00 SC 0 P 00 L 0 # 126 Hajduczenia, Marek ZTE Corporation	C/ 00 SC 0 # 128 Hajduczenia, Marek ZTE Corporation # 128
Comment Type ER Comment Status D Ip terminology Consistency in definitions:	Comment Type ER Comment Status D When refering to an Idle codeword, it should be named "Idle" and not "IDLE". "Idle" is what
"low Power Mode" "Low Power mode" "Low Power Mode" Pick one and stick to it consistently	is used currently in 802.3 SuggestedRemedy Global search & destroy: "IDLE" > "Idle" when referring to an idle character / symbol.
SuggestedRemedy	Proposed Response Response Status W
IMHO pick "Low Power Mode", add it to list of abbreviations and use "LPM" consistently to avoid repeating this term everywhere (LPM is free in 1.5 in 802.3-2008)	PROPOSED REJECT.
Proposed Response Response Status W	Needs to be checked. I see IDLE when refering to an idle character/symbol
PROPOSED ACCEPT IN PRINCIPLE.	C/ 78 SC 78.1.3 P 189 L 50 # 129 Hajduczenia, Marek ZTE Corporation
Terminology will be rationalized	Comment Type ER Comment Status D
C/ 00 SC 0 P 00 L 0 # 127 Hajduczenia, Marek ZTE Corporation Image: Corporation	What is the difference between "Low Power Mode" and "Low Power operation" ? If none, why create two terms to refer to the same thign ?
Comment Type ER Comment Status D Ip terminology	SuggestedRemedy
Consistency in definitions	As per comment.
"quiet mode" "Quiet mode" Pick one and stick to it consistently	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy IMHO, "Quiet Mode" since it is something specific to EEE and should be emphasized.	Elliminate "Low Power operation" term, use "Low Power Mode" of operation.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	C/ 78 SC 78.1.3 P 190 L 22 # 130 Hajduczenia, Marek ZTE Corporation 4 130
Stick with:	Comment Type ER Comment Status D
Quiet Mode	Figure 78-2 has very large gaps between accompanying text and the figure. Eliminate them. Additionally, the text in the figure could be larger. It is hard to read on a print-out.
	SuggestedRemedy
	As per comment.
	Proposed Response Response Status W
	PROPOSED ACCEPT.

CI 78 SC 78.5	P 194	L 45	# 131	C/ 71	SC 71	1.6.12.2	P 16	2	L 23	# 134
Hajduczenia, Marek	ZTE Corporation			Hajduczer	ia, Marek	κ.	ZTE Co	rporation	1	
Comment Type ER	Comment Status D			Comment	Туре	ER	Comment Status	2		
	You mean "The act of damaging the ect it is a typo. Does not seem to m						ere are two tables wi table or are complete			nout indication whether
SuggestedRemedy				Suggestee	Remedy					
Change into somethin	ng appropriate in this case (various	, different etc	.)	Either	add titles	and refe	rence them in the tex	t, or point	t to table whic	ch they replace / modify.
Proposed Response PROPOSED ACCEP	Response Status W			Proposed PROF	Response OSED A		Response Status	N		
See response to com	ment #325				will add p erence the		ble title & number and	provide	introductory s	entence or paragraph
C/ 71 SC 71.6.5 Hajduczenia, Marek	P 160 ZTE Corporation	L 50	# 132	C/ 00	SC 0		P 00		L 0	# 135
Comment Type ER	Comment Status D			Hajduczer	iia, Marek	ζ.	ZTE Co	orporation	l	
signal detect function SuggestedRemedy Change title of 71.6.5 operation". Need to d Proposed Response PROPOSED ACCEP Editor will change to Cl 71 SC 71.6.5a Hajduczenia, Marek Comment Type ER	"PMD lane-by-lane signal detect fur P 161 ZTE Corporation Comment Status D	detect function is notion during L 37	n during normal normal operation". # [<u>133</u>	refere Here i page page page page page page page page	ra of unre ra of unre s the list of 149, line 150, line 150, line 160, line 163, line 165, line 176, line 187, line	xx chara of missing 48, 53 1 48, 54 4, 5, 11, 1 7 20, 23 30 18, 20, 22 nt.	cters in them. g references: 4	the draft.	Scrutinize th	e draft and update all
reference to the locat The same is true for	as defined in TBD" this TBD need tion where Signal_Detect assertion page 161, line 43. page 173, line 37 & 43.			PROF	OSED A	CCEPT.	tual references.	N		
SuggestedRemedy As per comment.										
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.									
The KX4 signal detection to the proposed for TF a	ct should be similar as that defined to proval at meeting.	for CX4 in cla	use 54.5.4. Text will							

Comment ID # 135

Page 27 of 70 11/4/2008 1:52:39 PM

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 00 SC 0 P 00 L 0 # 136	Cl 72 SC 72.6.11.1 P 176 L 30 # 139
łajduczenia, Marek ZTE Corporation	Hajduczenia, Marek ZTE Corporation
Comment Type ER Comment Status D	Comment Type ER Comment Status D
There are several locations, where cross-references are not live e.g. page 149, line 49.	"Auto-negotiation as described in 73.x.x.x." - some reference is missing. This missing reference is repeated several time throughout the draft. Make sure You capture them all
SuggestedRemedy	SuggestedRemedy
As per comment. Make all cross-references in this draft live.	Update the missing reference.
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE.
We will do this, but it will be a continuing exercise as the draft changes so the commenter is requested to maintain a vigilant eye on any non-live cross references that remain. Editor needs help in linking crossreferences to times not in the draft but in the larger 802.3	Editor will replace with appropriate Auto-negotiation reference(s).
document.	Cl 72 SC 72.6.11.2 P 177 L 0 # 140
C/ 00 SC 0 P 00 L 0 # 137	Hajduczenia, Marek ZTE Corporation
Hajduczenia, Marek ZTE Corporation	Comment Type ER Comment Status D
Comment Type ER Comment Status D	On page 177, there are two tables without numbers and without indication whether they modify any existing table or are completely new tables
There are several locations in the draft e.g. page 172, line 6, where "state machines" are	
There are several locations in the utalt e.g. page 172, line 0, where state machines are	
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams".	SuggestedRemedy Fither add titles and reference them in the text, or point to table which they replace / modify
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy	Either add titles and reference them in the text, or point to table which they replace / modify
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram".	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or	Either add titles and reference them in the text, or point to table which they replace / modify <i>Proposed Response</i> Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate.	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. C/ 00 SC 0 P 00 L 0 # 141
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. Editor SC 0 P 00 L 0 # 138	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. C/ 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. C/ 00 SC 0 P 00 L 0 # 138 Hajduczenia, Marek ZTE Corporation	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. C/ 00 SC 0 P00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "us" is.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. C/ 00 SC 0 P 00 L 0 # 138 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D In the draft, there are several references to " <units>", e.g. page 173, line 37. What does</units>	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. Cl 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. C/ 00 SC 0 P 00 L 0 # 138 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D In the draft, there are several references to " <units>", e.g. page 173, line 37. What does this mean and why is it here ?</units>	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. Cl 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "us" is. "msec" as a unit is not used anywehere else in the draft. "ms" is. "sce" as a unit is not used anywehere else in the draft. "ns" is. SuggestedRemedy Global search & destroy: replace all occurences of offending abbreviations as suggested in
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. 2/ 00 SC 0 P 00 L 0 # 138 lajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D In the draft, there are several references to " <units>", e.g. page 173, line 37. What does this mean and why is it here ? SuggestedRemedy</units>	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. Cl 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is. SuggestedRemedy Global search & destroy: replace all occurences of offending abbreviations as suggested in the comment field.
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. C/ 00 SC 0 P 00 L 0 # 138 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D In the draft, there are several references to " <units>", e.g. page 173, line 37. What does this mean and why is it here ? SuggestedRemedy Either replace with appropriate units or remove altogether if it is only some editorial marker.</units>	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. Cl 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is. "msec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is. "msec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "ns" is. "msec" as a unit is not used anywehere else in the draft. "ns" is. SuggestedRemedy Global search & destroy: replace all occurences of offending abbreviations as suggested in the comment field. Proposed Response Response Status W
referenced. Per 802.3 guidelines, there are no "state machines" but "state diagrams". SuggestedRemedy Global hunt & destroy: all references to "state machine" must be replaced with "state diagram". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will perform global hunt and remove state machine and replace with either "state" or "state diagram" where appropriate. C/ 00 SC 0 P 00 L 0 # 138 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D In the draft, there are several references to " <units>", e.g. page 173, line 37. What does this mean and why is it here ? SuggestedRemedy</units>	Either add titles and reference them in the text, or point to table which they replace / modify Proposed Response Response Status W PROPOSED ACCEPT. Editor will add proper table title & number and provide introductory sentence or paragraph to reference the table. Cl 00 SC 0 P 00 L 0 # 141 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D "nsec" as a unit is not used anywehere else in the draft. "ns" is. "usec" as a unit is not used anywehere else in the draft. "us" is. SuggestedRemedy Global search & destroy: replace all occurences of offending abbreviations as suggested in the comment field.

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

proposed responses IEEE IEEE IEEE P802	.3az D1.0 Energy Eff	icient Eth	nernet comm	nents			Nov 2008
CI 72 SC 72.6.11.4 P 178 L 1 Hajduczenia, Marek ZTE Corporation		<i>Cl 78</i> Hajduczen	SC 78.1.3 ia, Marek		P 190 E Corporatio	L 25 on	# 144
Comment Type ER Comment Status D Consider usign the format of variable definition adopted by 802.3av in D2. It is much more readable and presents the size of teh variable as well as prevalues. SuggestedRemedy	I, Clause 77/76. potential default	"synch "asym Suggested	is some namin nronous". I wou metric" IRemedy		en both link te situation	to be called "as	the mode, it is synchronous" and not
As per comment Proposed Response Response Status W PROPOSED REJECT.		Proposed	Response	in line 27 to read "a" <i>Response Statu</i> T IN PRINCIPLE.		JS".	
Cl 72 SC 72.6.11.4.1 P 178 L 1 Hajduczenia, Marek ZTE Corporation Comment Type T Comment Status D Definitions of the variables need (probably) more careful consideration. Th value only during the autonegotiation process. What happens if the negotiation process.		When "symm When	link partners ca netric".		v Power Mc	de simultaneo	draft 0.9: usly, this mode is called f each other, it is called
 fails ? EEE will not work ? If it will start anyway, then variables need defaul SuggestedRemedy Add default values to variables if under link negotation failure EEE mecha operate. Proposed Response Response Status W PROPOSED REJECT. Some of these values need to be deleted as they will not be negotiated du There is only two sets of Quiet/Refresh ratios that can be negotiated now. 	lt values. nism can still ıring Auto-Neg.	78-1 fo operat each F Table betwee Suggestee	<i>Type</i> T defines Low poor the associate ion for the follo PHY." 78-1 does not en EEE and IE	ZT Comment State wer operational mod ed clauses." change wing six 802.3 PHYs ist protocols but PH'	les for the fo to "EEE dei s. Table 78-	ollowing six 802 fines the Low F 1 lists the clau	

PROPOSED ACCEPT.

"EEE defines Low power operational modes for the following six 802.3 protocols, use Table 78-1 for the associated clauses."

will be replaced by

"EEE defines the Low Power Idle mode of operation for the following six 802.3 PHYs. Table 78-1 lists the clauses associated with each PHY."

C/ 78 SC 78.4.1 Hajduczenia, Marek	P 193 ZTE Corporatior	L 11	# 146	C/ 78 Hajduczen	SC 78.5 ia. Marek	P 195 ZTE Corporati	L 1	# 148		
Comment Type T	Comment Status D			Comment		Comment Status D				
	E Type, Length, Value (TLV) c	defined in 78.1	.2." - there are no		78-2 is full of TE					
it in any way	s far as I can say. IB objects defined in TBD" ·	- TBD in a refe	erence. Cannot resolve		e the TBDs with	n at least temporary values You ge. You can always change the				
SuggestedRemedy				conser		ge. Tou can always change the	ese values late			
	to point to the appropriate loc eference to some subclause	ation (78.4.2 ?	???).	Proposed I	Response	Response Status W				
Proposed Response	Response Status W			PROP	OSED ACCEPT	IN PRINCIPLE.				
PROPOSED ACCEPT IN	,			TBD w	ill be replaced b	oy real values after TF discussi	on on draft 1.0			
Change reference to 78.4	1.2.			C/ 71	SC 71.5	P 160	L 36	# 149		
Cross reference to Claus	e 30 will be added when Clau	se 30 is comp	leted.	Hajduczen	ia, Marek	ZTE Corporati	on			
		•		Comment	Туре Т	Comment Status D				
C/ 78 SC 78.4.2	P 193	L 18	# 147			2 and 72-2, it is hard to say why				
Hajduczenia, Marek	ZTE Corporation	1				e left aligned) and why the add the same. Either name it "LPI e				
Comment Type T	Comment Status D		and a failer that first	,	,	t need to add an abbreviation in				
paragraph in 78.4.2	n is repeated from 78.4.1. See	ems unnecessa	ary, strike the first	Suggested	Remedy					
SuggestedRemedy				•	comment. he style of all ta	bles in the draft into a consiste	nt form.			
As per comment				Proposed I	Response	Response Status W				
Proposed Response PROPOSED ACCEPT IN	Response Status W			PROP	OSED REJECT					
Delete the first persons	in 70.4.0			The LF	PI enable will be	deleted per comment #227				
Delete the first paragraph	1 111 7 0.4.2			CI 71	SC 71.6.5	P 161	L 5	# 150		
				Hajduczen	ia, Marek	ZTE Corporati	on			
				Comment	Туре Т	Comment Status D				
				It is rea	ally inconsistent	to use "LPI" in some places a	nd "LP Idle" in	others.		
				Suggested	Remedy					
				Replace "LP Idle" with "LPI". Add "LPI <tab>Low Power Idle" to 1.5. Make sure only the firm use in the Clause of LPI is expanded i.e. has the form "Low Power Idle (LPI)". The remaining uses should be already based on the abbreviation. Scrub the whole draft</tab>						
				Proposed I	•	Response Status W				
						IN PRINCIPLE.				
				<u>.</u>						
				Should	be E not T.					

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

proposed responses II	EEE	IEEE P	802.3az D1.0 Energy E	Efficient Et	hernet	comme	nts		Nov 2008
C/ 72 SC 72.7.4.2 Hajduczenia, Marek	P 184 ZTE Corporation	L 30	# 151	<i>CI</i> 55 Tidstrom,		55.1.3	P 114 Broadcom	L 43	# 154
Comment Type T TBD in FS12 in 72.7.4.2	Comment Status D 2 PICS. Needs an update			<i>Comment</i> Refer		E e Energy	Comment Status D Efficient Clause as Clause 7	2.	
SuggestedRemedy As per comment.					e 72 is ti ASE-KR		sical Medium Dependent Sul	player and Base	band Medium, Type
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Suggeste Chan			to Clause 78.		
"Enters LowPower_st w	hen requested"			Claus	e 78 is ti	tled "Ener	rgy Efficient Ethernet (EEE)"		
C/ 55 SC 55.1 Tidstrom, Rick	P 114 Broadcom	L 13	# 152	Proposed PROF	•	se ACCEPT.	Response Status W		
Comment Type E	Comment Status D Efficient Clause as Clause 72.			<i>Cl</i> 55 Tidstrom,		55.1.3.3	P 116 Broadcom	L 24	# 155
Clause 72 is titled "Phys 10GBASE-KR".	sical Medium Dependent Sublay	er and Baseb	and Medium, Type	Comment The fo	ollowing	T sentence	Comment Status D is vague with regards to how	many LP_IDLE	codewords are
SuggestedRemedy				requir	red for a	transition	to Low Power Idle:		
Change from Clause 72	to Clause 78.						n the transition to the LPI tran on the XGMII interface."	nsmit state is init	tiated by the reception
	rgy Efficient Ethernet (EEE)".			Suggeste	dRemed	V			
Proposed Response PROPOSED ACCEPT.	Response Status W				ge the se		define the number of LP_ID	LE codewords r	equired for a transition
C/ 55 SC 55.1.1 Tidstrom, Rick	P 114 Broadcom	L 36	# 153	Proposed PROF	'	se ACCEPT.	Response Status W		
Comment Type E	Comment Status D			The e	ditor will	rewrite th	e text to clarify and make the	e number explici	t.
References the Energy	Efficient Clause as Clause 72.			[the n	umher is	defined la	ater, but this is an overview	rlause so it was	not included here. To
Clause 72 is titled "Phys 10GBASE-KR".	sical Medium Dependent Sublay	er and Baseb	and Medium, Type				or will add it to this subclaus		
SuggestedRemedy									
Change from Clause 72	to Clause 78.								
Clause 78 is titled "Ene	rgy Efficient Ethernet (EEE)".								
Proposed Response	Response Status W								

Comment ID # 155

Page 31 of 70 11/4/2008 1:52:39 PM

proposed responses IEEE IEEE IEEE P802.3az D1.0 Energy	Efficient Ethernet comments Nov 2008
C/ 55 SC 55.1.3.3 P 117 L 4 # 156 Tidstrom, Rick Broadcom Broadcom Comment Type T Comment Status D The senetence below indicates that the EEE Receive state machine is in the PCS.	Cl 55 SC 55.3.5.4 P 132 L 1 # 158 Tidstrom, Rick Broadcom Comment Type TR Comment Status D The state machines in the current draft have a hole with regards to the synchronization of a
"The EEE Receive state machine is contained in the PCS Receive function and is specified in Figure 55-TBD." SuggestedRemedy The EEE Receive state machine as currently defined is in the PMA sublayer. Possible remedies: 1. Change PCS to PMA.	link partners. The state machines will not be updated upon resolution of this draft. SuggestedRemedy The details for resolution of this issue to be submitted in a presentation for the November Plenary meeting. Proposed Response Response Status W For discussion by the group. At least one synchronization proposal will be presented at the November meeting.
 2. Redefine the state machine to be in the PCS. 3. The state machine location is vender determined. Proposed Response Response Status W For discussion by the group. New state diagrams will be presented to the group. Cl 55 SC 55.3.5.2 P 128 L 16 # 157 Tidstrom, Rick Broadcom Comment Type T Comment Status D In the Edititor's notes, the following question is asked: 	Cl 35 SC 35.2.2.9a P 69 L 32 # 159 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D Missing reference in "as shown in if" SuggestedRemedy Provide the missing reference Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See #206 See #206
 "Do we need a test mode, and what should be tested?" SuggestedRemedy Currently, there are three test mode bits, and 8-modes defined. If test modes are required for EEE, then another test mode bit will need to be added. Proposed Response Response Status W PROPOSED ACCEPT. If we need extra test modes then we need other test mode bits. At least one presentation on test modes will be made at the November meeting. 	Cl 36 SC 36 P72 L1 # 160 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D Extra bracket at the end of title in clause 36. SuggestedRemedy Remove it Proposed Response Response Status W PROPOSED ACCEPT.

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 40 SC Hajduczenia, Ma	C 40.3.4 arek	P 84 ZTE Corporat	L 1 ion	# 161	C/ 40 SC 40.5.1.1 P 91 L 50 # 163 Hajduczenia, Marek ZTE Corporation
Comment Type	ER	Comment Status D al problems as marked in 3		40_svc_to_humanity uczenia_3.pdf	Comment Type TR Comment Status D Table 40-4 is empty
for an exam (2) lines are (3) arrows d Similar prob SuggestedReme	nple of how to not broken do not meet a blems also ex edy	ard to guess which goes who o solve it in a clear manner n the middle is it happens on the left side ist in Figure 40-15a on pag	e of the figure (SuggestedRemedy Any contents will be inserted after this recirculation ? This comment is to make sure Y do not miss it Proposed Response Response Status W PROPOSED ACCEPT. Refer to #212
	onse D ACCEPT I	Response Status W N PRINCIPLE.			C/ 40 SC 40.12 P 93 L 1 # 164 Hajduczenia, Marek ZTE Corporation 4 164
The referent 802.3. The r were minor	modifications	re largely as they appear in required to realize optional	the current re Energy Efficie	vision of IEEE Std. ent Ethernet features	Comment Type TR Comment Status D This comment is to make sure You do not forget to fill in PICS for clause 40
How such "s	services to h	umanity" should be address	ed is a questic	on of project scope and	SuggestedRemedy As per comment.
See also co	omment #162	P 91	<i>L</i> 1	# 162	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PICS will be entered per Draft 1.0 and the adopted responses to comments against D 1.0.
lajduczenia, Ma Comment Type		ZTE Corporat Comment Status D	ion	40_svc_to_humanity	C/ 45 SC 45.2.7.15a.2 P 100 L 1 # 165 Hajduczenia, Marek ZTE Corporation 2 2 2 1
(1) arrows s		problems: eet as marked in 3az_0811_ to each other and become			Comment Type ER Comment Status D Missign references in 45.2.7.15a.2, 45.2.7.15a.3, 45.2.7.15a.4 and 45.2.7.15a.5 - defi them and provide explicitly.
uggestedReme As per comr	,				SuggestedRemedy As per comment
	onse	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Respo PROPOSEL Refer to #16	D ACCEPT I	N PRINCIPLE.			

proposed responses IEEE IEEE IEEE P802.3az D1.0 Energy	Efficient Ethernet comments Nov 2008
C/ 45 SC 45 P 101 L 1 # 166 Hajduczenia, Marek ZTE Corporation Image: Corporation	C/ 46 SC 46.3.1.2 P 103 L 40 # 168 Hajduczenia, Marek ZTE Corporation 2 2 1
Comment Type TR Comment Status D This comment is to make sure You do not forget to fill in PICS for clause 45 SuggestedRemedy As per comment Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D Text says "In the absence of errors or low power idle," but should probably say "In the absence of errors and low power idle,", since TXC signals are de-asserted by the RS for each octet of the preamble only when there is no transmission going on Similar comment on page 105, line 26. SuggestedRemedy As per comment
Cl 00 SC 0 P 00 L 0 # 167 Hajduczenia, Marek ZTE Corporation In terminology Comment Type T Comment Status D Ip terminology Term clutter I already saw "low power idle mode", "low power state", "low power idle state", "low power mode" etc. Do all of these refer to the same thing ? If so, why have several names for the same thing ? If so, why have several names for the same thing ? If so, why have several names for the same several name several names for the same several name s	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. The commenter is correct to highlight the ambiguity, but the addition of "or low power idle" is unnecessary for that sentence. Low power idle cannot be signaled during a frame. Change "In the absence of errors or low power idle," back to "In the absence of errors,"
same thing ? Scrub the draft accordingly SuggestedRemedy As per comment Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editors will rationalize terminology	Also on page 105, line 26 C/ 46 SC 46.3.1.5a P 104 L 41 # 169 Hajduczenia, Marek ZTE Corporation Comment Type ER Comment Status D Reference missing; also on page 107, line 12
	SuggestedRemedy Please update Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See #218

proposed responses	IEEE	IEEE	P802.3az D1.0 Energy E	fficient Eth	ernet	comme	nts		Nov 2008
Cl 25 SC 25.4.11 Hajduczenia, Marek	.1 P 55 ZTE Corporation	L 50	# 170	<i>Cl</i> 35 Hajduczen		35.2.2.7 ek	P 68 ZTE Corporation	L 42	# 173
Comment Type E I am not sure I unders	Comment Status D stand "25.4.11.1 Change to 7.1.2 "	Encoder""		Comment In Tab			<i>Comment Status</i> D ould be marked as insertion (ur	nderlined). It is	s not currently
SuggestedRemedy What do You want to	do in here ? Please clarify. The sa	ime is applic	able to page 57, line 26	Suggested As per	Remed comme	•			
	coder blocks in orginal TPPMD sta			Proposed PROP	•	se ACCEPT.	Response Status W		
	park state, while in EEE their funct			<i>CI</i> 55 Taich, Dim		55.1.3	P 114 Teranetics	L 43	# 174
Cl 30 SC 30 Hajduczenia, Marek	P 63 ZTE Corporation	L 1	# 171	Comment	,	ER	Comment Status D		
recirculation of the dra	Comment Status D - it would be good to have at least aft.	a rough loo	< at it before the next	"10GB Efficier	nt Ether	PHYs opt net (see	ionally provide support for Low Clause 72). This extension allow the MAC requests low power of	ws PHYs to er	
SuggestedRemedy As per comment							ports assymetrical LPI operatio has entered LPI and sent "Slee		Y can enter LPI state
Proposed Response PROPOSED ACCEP	Response Status W T.			Suggested Update mode			oossibility to enter LPI mode als	o when Link F	Partner has entered LP
C/ 35 SC 35 Hajduczenia, Marek	P 65 ZTE Corporation	<i>L</i> 1	# 172	Proposed I	•		Response Status W IN PRINCIPLE.		
Comment Type E	Comment Status D			PROP	JSED	ACCEPT	IN PRINCIPLE.		
Avoid it. Insert a new	e again references to subclauses a subclause if needed and call for re			The tex direction		s to clarif	y that the transition to LPI state	can occur in t	transmit and receive
subclauses. SuggestedRemedy				The ec	litor will	change t	he text appropriately.		
As per comment.									
Proposed Response PROPOSED REJEC	Response Status W								
to use this approach To renumber all the c	ociation staff editors have instructe when added clauses between exis lauses of the base document woul ause confusion about what was be	ting clauses d open too r	of the base document. nuch of the base to						
	e renumbered during the next revis d brought into the main document								

Page 35 of 70 11/4/2008 1:52:39 PM

Comment ID # 174

2/55 SC 55.5.2 P L # 175	
CI 55 SC 55.5.2 P L # 175	C/ 55 SC 124 P L # 177
aich, Dimitry Teranetics	Taich, Dimitry Teranetics
Comment Type TR Comment Status D We need to define additional test modes to verify:	Comment Type TR Comment Status D THP state is not defined at the beggining of the WAKE signal Transmission. SuggestedRemedy At the start of each WAKE signal the THP feedback delay line shall
 Alert pattern implementation LPI cycle implementation - for all possible Tr values Transmit path frequency stability in LPI mode 	
uggestedRemedy	be initialized with zeros
See "10GBASE-T LPI Test modes" Teranetics' presentation	Proposed Response Response Status W
roposed Response Response Status W	For discussion by the group.
For discussion by the group.	CI 55 SC P L # 178
Additional test modes need to be defined for EEE-capable PHYs.	Taich, Dimitry Teranetics
At least one proposal will be presented in November.	Comment Type E Comment Status D EEE is clause 78. There are multiple places in clause 53 when EEE is referenced as clause 72.
/ 55 SC 55.3.2.2.21 P 124 L 32 # 176 aich, Dimitry Teranetics	SuggestedRemedy Update references to EEE according to the comment
Comment Type TR Comment Status D Editorial comment reads: "The process by which PCS scrambler synchronization is maintained during quiet signaling has not been specified. Simple solutions would be to fraze the scramblers during quiet	Proposed Response Response Status W PROPOSED ACCEPT.
has not been specified. Simple solutions would be to freeze the scramblers during quiet. [scramblers are not used for the alert sequence]."	Cl 55 SC 55.1.3.3 P 116 L 52 # 179 Taich, Dimitry Teranetics
has not been specified. Simple solutions would be to freeze the scramblers during quiet.	Cl 55 SC 55.1.3.3 P 116 L 52 # 179
has not been specified. Simple solutions would be to freeze the scramblers during quiet. [scramblers are not used for the alert sequence]." I suspect that freezing scramblers during Quiet Time and enabling them for Refresh/Data is unnecessary transition process sophistication and can raise yet another sync concern. Typical scramblers implementation takes virtually no power, why don't we leave them running all the time, during Quiet periods as well?	Cl 55 SC 55.1.3.3 P 116 L 52 # 179 Taich, Dimitry Teranetics Comment Type ER Comment Status D Text reads:
has not been specified. Simple solutions would be to freeze the scramblers during quiet. [scramblers are not used for the alert sequence]." I suspect that freezing scramblers during Quiet Time and enabling them for Refresh/Data is unnecessary transition process sophistication and can raise yet another sync concern. Typical scramblers implementation takes virtually no power, why don't we leave them running all the time, during Quiet periods as well? <i>uggestedRemedy</i> Editor to put specific note in the text that PCS scrambler should be running constantly and not be affected by LPI mode states/transitions	CI 55 SC 55.1.3.3 P 116 L 52 # 179 Taich, Dimitry Teranetics Comment Type ER Comment Status D Text reads: "The MAC is responsible for controlling transitions to and from the LPI state via XGMII signaling." MAC is only responsible for transitions to and from LPI state of the Transmit path. Received
has not been specified. Simple solutions would be to freeze the scramblers during quiet. [scramblers are not used for the alert sequence]." I suspect that freezing scramblers during Quiet Time and enabling them for Refresh/Data is unnecessary transition process sophistication and can raise yet another sync concern. Typical scramblers implementation takes virtually no power, why don't we leave them running all the time, during Quiet periods as well? <i>uggestedRemedy</i> Editor to put specific note in the text that PCS scrambler should be running constantly and not be affected by LPI mode states/transitions	Cl 55 SC 55.1.3.3 P 116 L 52 # 179 Taich, Dimitry Teranetics Comment Type ER Comment Status D Text reads: "The MAC is responsible for controlling transitions to and from the LPI state via XGMII signaling." MAC is only responsible for transitions to and from LPI state of the Transmit path. Receive path operational mode depends on the Link Partner Operational Mode (Normal or LPI).
has not been specified. Simple solutions would be to freeze the scramblers during quiet. [scramblers are not used for the alert sequence]." I suspect that freezing scramblers during Quiet Time and enabling them for Refresh/Data is unnecessary transition process sophistication and can raise yet another sync concern. Typical scramblers implementation takes virtually no power, why don't we leave them running all the time, during Quiet periods as well? <i>uggestedRemedy</i> Editor to put specific note in the text that PCS scrambler should be running constantly and not be affected by LPI mode states/transitions	CI 55 SC 55.1.3.3 P 116 L 52 # 179 Taich, Dimitry Teranetics Comment Type ER Comment Status D Text reads: "The MAC is responsible for controlling transitions to and from the LPI state via XGMII signaling." MAC is only responsible for transitions to and from LPI state of the Transmit path. Recei

C/ 24 SC 24.4.1.9 GUPTA, SUJAY	5 P 50 Infosys Tech	L 33 nologies	# 180	<i>CI 78</i> GUPTA, S	SC 78.2.4.3 UJAY	P 194 Infosys Tech	L 3 nnologies	# 182
implemented, to	Comment Status D rated by the Receive Process smitter is in Low Power Transn and Figure 24-8.			and th	h direction, the F e received	Comment Status D Resolved Transmit Tw_sys is Receive Tw_sys.	s the lesser of th	e local Transmit Tw_sys
SuggestedRemedy >> Should it not be th >>the clause reference 24-11 or 24-8	ne Transmit Process , ce is not traceable and it make	s better to refer t	o figure 24-4 and not	send	data before the e atement here, of	w_sys implies the partner m xpiry of Recvd Tw_sys. choosing lesser of the two,	,	·
Proposed Response PROPOSED ACCEP	Response Status W			•	Response OSED REJECT.	Response Status W		
C/ 78 SC 78.1.3 GUPTA, SUJAY	P 189 Infosys Tech	L 36 nologies	# 181	Firstly	, there is no rem	edy.		
Comment Type T In the transmit directir reception of LP_IDLE codewords on the MA		de of operation is	s triggered by the	how ti LP wi	ne negotiation wi	at each LP sends to its peer Il resolve in both directions, a certain delay then it can c bid packet loss.	therefore if a de	vice understands that its
SuggestedRemedy It would be more cleat codewords on the MI	ar to mention at as " reception	n of LP_IDLE				that all devices have the ab wake-up time must be limite		
Proposed Response PROPOSED REJEC	Response Status W			<i>CI 24</i> GUPTA, S	SC 24.2.2.5 UJAY	P 41 Infosys Tech	L 32 nnologies	# 183
Proposed remedy is	already in the text, lines 37-38	on the same pag	je	group	P state. The star	Comment Status D t of a Low Power Idle stream ne denoted	n is indicated by	a series of SLEEP code-
				group	P state. The star	t of a Low Power Idle strean e denoted	n is indicated by	a series of SLEEP code-
				•	Response OSED ACCEPT	Response Status W		

C/ 24 SC 24.2.2.5 P 41 L 48 # 184 GUPTA, SUJAY Infosys Technologies Infosys Technologies	CI 24 SC 24.2.2.5 P 41 L 41 # [186] GUPTA, SUJAY Infosys Technologies Infosys Technologies Infosys Technologies Infosys Technologies
Comment Type E Comment Status D Upon successfully receiving SLEEP code-groups, the 100BASE-X PCS will enter Low Power Receive state if the Energy Efficient Ethernet option is implemented.	Comment Type E Comment Status D c) WAKE state. At the end of the Low Power Idle state, the stream is terminated by a series of IDLE code-groups with default or negotiated amount of time denoted by Tw.
SuggestedRemedy Upon successfully receiving SLEEP code-groups, the 100BASE-X PCS will enter Low Power Receive state >>(if the Energy Efficient Ethernet option is implemented.)<< this part is understood in the larger context may be omitted at frequent places. Proposed Response Response Status W	SuggestedRemedy c) WAKE state. At the end of the Low Power Idle state, the stream is terminated by a series of IDLE code-groups for the default or negotiated amount of time denoted by Tw. Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT. 24 SC 24.2.3.4 P 43 L 10 # 185 SUPTA, SUJAY Infosys Technologies	CI 78 SC 78.3 P 192 L 4 # 187 GUPTA, SUJAY Infosys Technologies 187
Comment Type E Comment Status D 24.2.3.4 Timers SuggestedRemedy in this section all the timers description begins with ; "In the low power receive state", this makes some definitions not so clear. without the state diagram right next. They could be better started off as "In the low power receive state, when it is in the Quite state etc"	Comment Type T Comment Status D Each PHY advertises most energy-efficient combination (combination with lowest Tr/Tq ratio value) supported and negotiates to lowest common value to ensure robust and quality link. >> A least negotiated value would guarentee maximum power savings, is there any relatio with "robust" and "quality link". If robust and link quality are meant here to be technical terms. SuggestedRemedy Suggest to remove it.
Proposed Response Response Status W PROPOSED REJECT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
However, it's open to other opinion.	See comment #236

GUPTA, SUJAY	78.1.3	P	L 25	# 188	C/ 40	SC 40.4.5.2		P 88	L 6	# 190
		Infosys Techn	ologies		Grimwood,			Broadcom Co	prporation	
relevant it wo SuggestedRemed	dea behind introducing ould be under the scop	be of Control Plane	e, which will trigg	er and stop LPI.	(comm that (lp	r to accommod ent submitted s pi_wakemz_tim	eparately), the l er - lpi_waketx_t	uirement for s pi_waketx_tim timer) >= sign	al_detect deasse	40_signal_detec assertion_time to be modified such bettion time. So for the artion time must be <=
section. Furth partners ente no relation the	be added as an Option ner a symmetric behaver or LPI (may not be at the at with both going into e what is specifed in the	viour could be bett the same time) an o LPI simultaneous	ter described as a id contrary for asy sly would cause a	a scheme where both ymmetric (If there is	1.0 μs. Suggested Chang	9:				
Proposed Respor	nse Respons	e Status W			This tin	ner shall have a	a period betweer	n 1.2 µs and 1	.4 μs.	
When both lir called symme (by sending L	REJECT. nd asymmetric modes nk partners can only e etric. That is, after link .P_Sleep codeword), i er Low Power Mode.	enter Low Power M partner-1 indicate	Node simultaneou es that it is ready	isly, this mode is for Low Power Mode	Proposed F	Response DSED ACCEPT	a period betweer <i>Response S</i> F IN PRINCIPLE	tatus W	.0 µs.	
				rs Low Power Mode rtner-2 can still stay in	Cl 40 Grimwood,	SC 40.4.6.1 Michael		P 90 Broadcom Co	L 20 prporation	# 191
· · ·	40.4.5.2	P 87	L 22	# 189	Comment T	51	Comment S			40_PHY_Contro
Grimwood, Micha		Broadcom Co		# 109						ke_silent state that ondition can lead to
Comment Type		nt Status D		40 signal detect	interop	erability issues	. Also, allowing t	he wake_sile	nt state in LPI mo	de to be executed
Currently, sig	nal detect assertion a alues needed.		eassertion times	= 0 =		ations of state			o can contribute to	roduces additional o interoperability
	dy				Suggested	Remedy				
		he and a requirem	ent that it be no l	onger than 0.5 µs.	A prese	entation will be	submitted propo	sing a remed	у.	
SuggestedRemed	_detect_assertion_tin				/ /	Response	Rosnonso S	tatus W		
SuggestedRemed	_detect_assertion_tim _detect_deassertion_		ment that it be n	o longer than 1.0 µs.	Proposed F	,	IN PRINCIPLE			

proposed responses IEEE IEEE IEEE P802.3az D1.0 Energy	by Efficient Ethernet comments Nov 2008
C/ 40 SC 40.4.5.2 P 87 L 51 # 192 Grimwood, Michael Broadcom Corporation Broadcom Corporation # 192	C/ 45 SC 45.2.7.13a P 98 L 10 # 193 Grimwood, Michael Broadcom Corporation Broadcom Corporation Broadcom Corporation Broadcom Corporation
Comment Type TR Comment Status D 40_tw_negotiation lpi_wake_time is specified to be less than or equal to 16 μ s. However, under best-case implementation assumptions and propagation delays, it is still possible that wake can take up to 3.8 μ s since this is the sum of the minimum lpi_wakemz_timer and lpi_waitwt_timer values. Therefore, the parameter range and associated allowable autonegotiation values should be constrained such that wake time is greater than or equal to 3.8 μ s and less than or equal to 16 μ s. Because the wake time is negotiated in 1 μ s increments, the allowable range for lpi_wake_time should be 4 μ s to 16 μ s.	Comment Type T Comment Status D In Table 45-145 EEE advertisement register, bit 7.60.10 is specified as "Next page Always set to 1". Since this is always set to 1, do we need to send this indication? Recommend changing the bit to reserved for potential future use. SuggestedRemedy Change: 7.60.15:11 Reserved Ignore on read
SuggestedRemedy Change:	To:
Duration: This timer is a negotiated parameter [add reference] not to exceed 16 $\mbox{\mbox{$\mu$s}}.$	7.60.15:7 Reserved Ignore on read
То:	Delete the following two rows in the table:
Duration: This timer is a negotiated parameter [add reference] with a value greater than or equal to 4 µs and less than or equal to 16 µs. <i>Proposed Response Response Status</i> W PROPOSED ACCEPT IN PRINCIPLE. Refer to #209.	7.60.10 Next page Always set to 1, indicating that another page follows 7.60.9:7 Reserved Ignore on read Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.7.15a P 99 L 23 # 194 Grimwood, Michael Broadcom Corporation Comment Type T Comment Status D In Table 45-146 EEE mode control register, bit 7.62.10 is specified as "Next page Always set to 0". Since this is always set to 0, do we need to send this indication? Recommend changing the bit to reserved for potential future use. SuggestedRemedy Change: 7.62.15:11 Reserved Ignore on read To: 7.62.15:10 Reserved Ignore on read Delete the following: 7.62.10 Next page Always set to 0, indicating that no page follows Proposed Response Response Response Status W

CI 55 SC 55.3.52 P 128	L 8	# 195	C/ 55	SC 3.2.2.21	P 124	L 19	# 197
Grimwood, Michael Broadcom Co	orporation		Graba, Jim		Broadcom		
Comment Type TR Comment Status D			Comment 7	ype TR	Comment Status D		
As pointed out in the editor's comment number 4): " time, how do they resolve who was the first to enter synchronization of refresh periods? This seems to re	LPI in order to e	ensure appropriate	errors a	and should not	bdeword in the first wake frame be used as a criterion for any v		
This is a critical issue to resolve. Also we need to no but also ensure a mechanism exists to synchronize the respective link partners.			Suggested Reword detectio Proposed F	l so as not to ir on.	clude the first idle code word	after an alert in a	any wake frame error
SuggestedRemedy				cussion by the	Response Status W		
The details for resolution of this issue to be submitte Plenary meeting.	ed in a presentat	ion for the November	C/ 24	SC 24.1.1	P 36	L 10	# 198
Proposed Response Response Status W			Barrass, Hu	ıgh	Cisco		
For discussion by the group.			Comment T	<i>уре</i> т	Comment Status D		
At least one proposal for a synchronization mechan meeting.	ism will be prese	ented at the November	Suggested		LPI.		
C/ 55 SC 55.6.3 P146	L 39	# 196	Replace	e			
Grimwood, Michael Broadcom Co	orporation		"When	this capability i	s implemented and enabled"		
Comment Type TR Comment Status D			with				
The 100BASE-TX and 1000BASE-T EEE specificat							
wake time (30 us for 100BASE-TX and negotiated u no equivalent specification for 10GBASE-T EEE.	p to 16 us for 10	000BASE-T). There is			s implemented and utilized"		
			Proposed R	•	Response Status W		
Instead, for 10G, there is an lpi_wake_time negotiat However, this is not the actual wake time (Tw_phy a portion of the overall wake time. The Tw_PHY time be explicit to ensure implementations meet this over also to make Tw_PHY explicit for system-level imple	as defined in Čla and associated i rall PHY wake tir	use 78) as it is only a requirement needs to	PROPC	SED ACCEPT			
SuggestedRemedy							
Add a requirement for Tw_PHY for 10GBASE-T. Th requirement to be submitted in a presentation for the							
Proposed Response Response Status W							
PROPOSED ACCEPT IN PRINCIPLE.							
The 10GBASE-T editor will work with the Clause 79	editor to resolve	this issue					

24 SC 24.1.1 Barrass, Hugh	P 36 Cisco	L 12	# 199	<i>Cl</i> 24 Barrass, ⊢	SC 24.1.4.1	C	P 36 isco	L 53	# 201
<i>Comment Type</i> E This seems to indicate	Comment Status D that 100BASE-TX is the only	supported PHY -	it needs to be made	Comment	0	Comment Sta	itus D	leading.	
clearer. SuggestedRemedy Change				Suggested Chang	-				
Ū.	ntly only supported in 100BA	SE-TX.		Interp mode	ret and generate	MII opcodes to o	ptionally ena	able or disable th	e Low power Idle
to				to					
The only 100BASE-X F Proposed Response PROPOSED ACCEPT	PHY that supports this capab Response Status W	lity is 100BASE-T	⁻ X.	Proposed PROF	ret and generate <i>Response</i> POSED ACCEPT e refer to commen	Response Sta	0	ower Idle.	
Cl 24 SC 24.1.2 Barrass, Hugh Comment Type E	P 36 Cisco Comment Status D	L 33	# 200	C/ 24 Barrass, ⊢	SC 24.2.3.4 lugh	C	P 43 isco	L 27	# 202
SuggestedRemedy Change Support the option of E	option and "mode" is mislead energy Efficient Ethernet with 78 for the embodiment of 10	the function of Lo	w Power Idle mode	transn negoti would	or doesn't seem to nitter must wait for iating a smaller va not allow any ext or /P/P/.	or at least 30us be alue (and it's very	egotiating th efore it can s small anyw	send data, so the ay). Negotiating	_rx_tw_timer. The re's no benefit to a longer wakeup tim dy started sending
to				Chang	-				
	nt Ethernet with the optional the optional the optional the optional the optional the option of 100BASE-TX.	unction of Low Po	ower Idle as described	This ti with L		efault value 30us	and can be	negotiated during	g Auto-negotiation or
roposed Response PROPOSED ACCEPT	Response Status W			to					
				The va	alue of this timer	is fixed to 24us.			
				Proposed	Response	Response Sta	tus W		
					POSED ACCEPT	IN PRINCIPLE. timer vaue to 300	is since it is	used to determin	ne if the link fails.

proposed responses	s IEEE	IEEE P	802.3az D1.0 Energy	Efficient Et	hernet comm	ents			Nov 2008
C/ 25 SC 25.4.11 Barrass, Hugh	P 55 Cisco	L 41	# 203	<i>CI</i> 35 Barrass, H	SC 35.2.2.9	-	P 69 sco	L 33	# 206
<i>Comment Type</i> T There is no enable for	Comment Status D or the LPI function.			<i>Comment</i> The e	51	Comment Stat	_	ed to indicate "clo	ck stoppable"
SuggestedRemedy Change				Suggeste Add a	•	ause 45 PCS regist	ers (separa	ate comment)	
implemented and en	abled			Chan	ge				
to						is indicating low po _CLK_stoppable bit			ay halt the RX_CLK as dd reference].
implemented Proposed Response	Response Status W			With					
PROPOSED ACCER	РТ.								ay halt the RX_CLK as serted [45.2.3.1.3a].
C/ 25 SC 25.4.11		L 14	# 204	Proposed	Response	Response Statu	us W		
Barrass, Hugh	Cisco			PROF	POSED ACCEPT	IN PRINCIPLE.			
Comment Type T There is no enable for	Comment Status D				ot the remedy for 66 line 32) as fo		litionally re	place similar para	igraph in 35.2.2.6a
SuggestedRemedy Change "enabled" to	"implemented"			Chan	ge				
Proposed Response PROPOSED ACCER	Response Status W			the lo		te as shown in Figu			ycles after the start of toppable bit is
C/ 25 SC 25.4.11 Barrass, Hugh	I.4 P 59 Cisco	L 22	# 205	With					
Comment Type T There is no enable for	Comment Status D			the lo		te as shown in Figu			ycles after the start of K_CLK_stoppable bit
SuggestedRemedy Change "enabled" to	"implemented"								
Proposed Response PROPOSED ACCEF	Response Status W								

proposed responses IEEE	IE	EE P802.	3az D1.0 Energy E	Efficient Eth	nernet co	ommer	nts			Nov 2008
C/ 35 SC 35.2.2.4 F Barrass, Hugh Cis	2 65 <i>L</i> 48	\$	# 207	<i>CI</i> 40 Barrass, H	SC 40. Iugh	.4.5.2		P 87 Cisco	L 5 1	# 209
Comment Type T Comment Statu There is no enable for LPI.	s D			Comment The pi			<i>Comment</i> Seems		nplex for a very	40_tw_negotiation y small benefit.
SuggestedRemedy Replace				The tir Suggested		d be fixe	d to the smalle	st value that	is generally ac	cceptable.
When LPI mode is enabled (see [Editor's	note add reference]), the PHY sl	hall interpret	Chang	-					
with				Durati	on: This tir	mer is a	negotiated par	ameter [add	reference] not	to exceed 16 us.
The PHY shall interpret				to						
Proposed Response Response Statu PROPOSED ACCEPT.	s W			Durati Proposed			ll have a period Response St			
C/ 40 SC 40.1.3 F Barrass, Hugh Cis C	2 74 <i>L</i> 18	3	# 208				N PRINCIPLE. ned presentation	ons on this s	ubject.	
Comment Type T Comment Statu There is no enable for LPI.	s D		40_mr_enable	See al	lso #62. SC 40.	452		P 88	L 14	# 210
SuggestedRemedy				Barrass, H		.4.J.Z		Cisco	L 14	# 210
Change				Comment			Comment S			40_tw_negotiation
When this capability is enabled, the asser	tion of low power			The pi	rogrammat	ble wake	e timer is unne	cessary (add	iressed in a se	parate comment)
to					programma e fixed.	able wał	ke timer is fixe	d to 16uS the	en the duration	of lpi_wakemz_timer can
The assertion of low power				Suggested	dRemedy					
Proposed Response Response Statu	s W			Chang	ge					
PROPOSED ACCEPT. It is true that there is no enable for low-po	wer idle. Should the	re be one?					pi_wakemz_tir			d value of lpi_wake_timer
				to						
				Durati	on: This tir	mer sha	ll have a perio	d of 5 us.		
				Also, d	delete Tabl	le 40-3				
				Proposed	Response		Response St	atus W		
				PROP	•		N PRINCIPLE.			

Page 44 of 70 11/4/2008 1:52:39 PM

proposed responses IEEE		IEEE P	802.3az D1.0 Energy E	Efficient Eth	hernet comm	ents		Nov 2008
C/ 40 SC 40.5.1 Barrass, Hugh	<i>P</i> 91 Cisco	L 40	# 211	<i>CI</i> 45 Barrass, ⊦	SC 45.2.3 Iugh	Р 97 Сіsco	L 10	# 214
Comment Type T Co This clause should reference	mment Status D the new autonegotiation	on requirements	for EEE.	<i>Comment</i> A bit i		Comment Status D ock stoppable" as used in Cla	ause 22 etc.	
SuggestedRemedy Add the following:				S <i>uggeste</i> Add th	dRemedy ne following:			
Insert below bullet item b):				Chang	ge Table 45-83 t	o add "clock stoppable" bit		
c) To negotiate Energy Efficie	ent Ethernet capabilities	s as specified in	28C.12.	(chan	ge 3.0.10:7 Rese	erved to 3.0.9:7 Reserved)		
Proposed Response Res PROPOSED ACCEPT.	sponse Status W			Add s	ubclause 45.2.3	1.3a		
C/ 40 SC 40.5.1.1	P 91	L 50	# 212	45.2.3	3.1.3a Clock Stop	opable (3.0.10)		
Barrass, Hugh	Cisco	L 30	# 212			ow power idle signaling may s		
Comment Type T Co New registers defined in 45.2	<i>mment Status</i> D .1.2 need to be added	to the table		may s the cl	stop the receive I ock active. If the	er idle in the receive direction All clock while it is signaling le PHY does not support low po this bit has no effect (see 22.	ow power idle oth ower idle signaing	nerwise it shall keep g or is not able to stop
SuggestedRemedy					Response	Response Status W	.2.2.00, 00.2.2.00	, +0.0.2.+u).
Add the register descriptions				PROF	POSED ACCEPT			
Proposed Response Res PROPOSED ACCEPT. Table will be filled in with Ene values defined in 45.2.1.2 as 1.0.				Cl 45 Barrass, H Comment	Туре Е	P 96 Cisco Comment Status D	L 12	# 215
C/ 40 SC 40.5.1.2	P 92	L 12	# 213	Suggestee	designation is w	rong		
Barrass, Hugh	Cisco			••	ge 45-1 to 45-5			
Comment Type T Co New registers defined in 45.2	mment Status D 7 need to be added to	the table		Proposed	Response	Response Status W		
SuggestedRemedy Add the register descriptions	into the table.			FNUF				
Proposed Response Res	ponse Status W							
PROPOSED ACCEPT. Table will be filled in with Ene 45.2.7 as modified by adopte	ergy Efficient Ethernet r							

proposed response	es IEEE	IEEE F	802.3az D1.0 Energy	efficient Ethernet comm	ents		Nov 2008
C/ 45 SC 45.2. Barrass, Hugh	7.15a P 99 Cisco	L 46	# 216	C/ 46 SC 46.3.2.4 Barrass, Hugh	a P 106 Cisco	L 12	# 218
reduced energy set this and the link pa <i>SuggestedRemedy</i>	7.15a and 45.2.7.15b (mis-num Response Status W	e is no such definit	ion, therefore delete	SuggestedRemedy Add a control bit in Cla Change While the PHY device	Comment Status D rates that a control bit is ner ause 45 PCS registers (sep	parate comment) e the PHY device ma	ay halt the RX_CLK as
Cl 45 SC 45.2.7 Barrass, Hugh Comment Type E		L 31	# 217	With While the PHY device	_CLK_stoppable bit is asse	the PHY device ma	ay halt the RX_CLK as
sub-clause is mis-n SuggestedRemedy Change 45.2.7.15a	umbered			Proposed Response PROPOSED ACCEP			
Proposed Response PROPOSED ACCE	Response Status W			Accept the remedy for (page 104 line 40) as Change	this comment, additionally follows:	replace similar para	agraph in 46.3.1.5a
					halt TX_CLK at any time m te as shown in Figure 46-7a rence].		

With

The MAC device may halt TX_CLK at any time more than 128 clock cycles after the start of the low power idle state as shown in Figure 46-7a if and only if the TX_CLK_stoppable bit is asserted [45.2.3.1.3a].

proposed responses	IEEE	IEEE P8	302.3az D1.0 Energy	Efficient Ethernet comr	nents		Nov 2008
C/ 46 SC 46.3.1.2 Barrass, Hugh	2 P 103 Cisco	L 52	# 219	C/ 70 SC 70.1 Barrass, Hugh	P 149 Cisco	L 30	# 221
<i>Comment Type</i> T There is no enable fo	Comment Status D			<i>Comment Type</i> T There is no enable fe	Comment Status D		
SuggestedRemedy Replace				SuggestedRemedy Replace			
When LPI mode is en	abled (see [Editor's note add re	eference]), the Pl	HY shall interpret	When this capability	is enabled, the assertion of low	v power	
with				with			
The PHY shall interpr	et			The assertion of low	power		
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response PROPOSED ACCEF	Response Status W		
<i>Cl</i> 55 <i>SC</i> 55.2.1 Barrass, Hugh	P 118 Cisco	L 43	# 220	C/ 70 SC 70.3a Barrass, Hugh	P 149 Cisco	L 54	# 222
Comment Type T	Comment Status D			Comment Type T	Comment Status D		
The editor's note asks	s a question.			There is no enable for	or LPI.		
	e resolution of the negotiable tir tion of the negotiation is require		ill be defined in	SuggestedRemedy replace			
SuggestedRemedy				if the Low Power lo	dle feature is enabled and the F	CS transmit fund	tion receives
Delete the editor's no	te.			with			
Proposed Response	Response Status W			with			
PROPOSED ACCEP	Т.			if the PCS transmi	t function receives		
The editor will remove				Proposed Response PROPOSED ACCE	Response Status W		
the 10GBASE-T PHY	as not asking whether the resolution of the secolution of the seco	e should be pass	ed across the	Editor will change pe	er suggested remedy.		
				C/ 70 SC 70.5 Barrass, Hugh	P 150 Cisco	L 27	# 223
				<i>Comment Type</i> T There is no enable for	Comment Status D		
				SuggestedRemedy			
				Delete the row from	Table 70-2		

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

C/ 70 SC 70.5	P 150	L 40	# 224	C/ 71 SC 71.3a	P 160	L 10	# 226
Barrass, Hugh	Cisco			Barrass, Hugh	Cisco		
Comment Type T There are separate sta	Comment Status D atus bits for Tx & Rx.			Comment Type T There is no enable for I	Comment Status D _PI.		
SuggestedRemedy Modify Table 70-3 to r	natch 45.2.1.2 (Table 45-5).			SuggestedRemedy Replace			
Proposed Response PROPOSED ACCEP1	Response Status W			If the Low Power Idle fe	eature is enabled and the PCS	S	
Table 70-3 will be mod	dified to match 45.2.1.2			with			
C/ 71 SC 71.1	P 159	L 10	# 225	The PCS			
Barrass, Hugh	Cisco			Two instances - lines 1			
Comment Type T There is no enable for	Comment Status D			Proposed Response PROPOSED ACCEPT.	Response Status W		
SuggestedRemedy				CI 71 SC 71.5	P 160	L 36	# 227
Replace				Barrass, Hugh	Cisco		
When this capability is	s enabled, the assertion of low	power		<i>Comment Type</i> T There is no enable for I	Comment Status D		
with				SuggestedRemedy			
The assertion of low p	ower			Delete the row from Tal	ble 71-2		
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
				C/ 71 SC 71.5	P 161	L 8	# 228
				Barrass, Hugh	Cisco		
				Comment Type T There are separate stat	Comment Status D tus bits for Tx & Rx.		
				SuggestedRemedy Modify Table 71-3 to m	atch 45.2.1.2 (Table 45-5).		
				Proposed Response PROPOSED ACCEPT.	Response Status W		

proposed responses	S IEEE	IEEE F	P802.3az D1.0 Energy	y Efficient Ethernet comments			Nov 2008	
C/ 72 SC 72.1 Barrass, Hugh	P 171 Cisco	L 36	# 229	C/ 72 SC 72.5 Barrass, Hugh	P 172 Cisco	L 35	# 231	
Comment Type T There is no enable fo	Comment Status D			Comment Type T There is no enable	Comment Status D			
SuggestedRemedy Replace				SuggestedRemedy Delete the row fror	n Table 72-2			
	is enabled, the assertion of low	power		Proposed Response PROPOSED ACCI	Response Status W			
with The assertion of low				CI 72 SC 72.5 Barrass, Hugh	Р 173 Cisco	L 8	# 232	
Proposed Response PROPOSED ACCEP	Response Status W			Comment Type T There are separate	Comment Status D e status bits for Tx & Rx.			
C/ 72 SC 72.3a Barrass, Hugh	<i>P</i> 171 Cisco	L 5	# 230	SuggestedRemedy Modify Table 71-3	to match 45.2.1.2 (Table 45-5).			
Comment Type T There is no enable fo	Comment Status D			Proposed Response PROPOSED ACCI	Response Status W			
SuggestedRemedy Replace				<i>Cl</i> 78 <i>SC</i> 78.1. Barrass, Hugh	3 P 189 Cisco	L 40	# 233	
If the Low Power Idle with	feature is enabled and the PC	S		Comment Type T Typo - 10BASE-T,	Comment Status D should be 100BASE-TX			
The PCS				SuggestedRemedy Change 10BASE-1	Γ to 100BASE-TX.			
Two instances - lines Proposed Response	Response Status W			Proposed Response PROPOSED ACCI	Response Status W			
PROPOSED ACCEP	РТ.			C/ 78 SC 78.1. Barrass, Hugh	4 <i>P</i> 190 Cisco	L 41	# 234	
				Comment Type E 100BASE-T - shou	Comment Status D			
				SuggestedRemedy Change 100BASE	-T to 100BASE-TX			
				Proposed Response	Response Status W			

PROPOSED ACCEPT.

Comment ID # 234

Page 49 of 70 11/4/2008 1:52:39 PM

Cl 78 SC 78.1.5 P 190 L 45 # 235 Barrass, Hugh Cisco Cisco Cisco Comment Type E Comment Status D Missing clause number SuggestedRemedy D D The editor's note appears to be out of date - there are changes in the clause. SuggestedRemedy SuggestedRemedy D D The editor's note appears to be out of date - there are changes in the clause. PROPOSED ACCEPT. Cl 14 SC 14.4.2.1 P 27 L 3 # [236] Cl 76 SC 78.3 P 192 L 1 # [236] Barrass. Hugh Cisco Comment Type T Comment Status D The editor's note appears to be out of date - there are changes in the clause. SuggestedRemedy Replace first 2 paragraphs are incorrect. SuggestedRemedy Cisco Comment Type E Comment Status D The autonegotiation process uses nest page messages or extended next page messages as define of the parters for the negodiated PHY type then the EEE function may be used independently in either direction. Cl 22 SC 222.2.6.3 P 31 L 23 # [240] Corrent Type E Comment Status D Cisco Comment Type E Comment Status D Cisco Comment Typ			
Missing dause number The editor's note appears to be out of date - there are changes in the clause. Suggested/Remedy Suggested/Remedy Proposed Response Response Status W PROPOSED ACCEPT. Cisco Response Status W C1 78 SC 78.3 P 192 L1 # 236 Barrass, Hugh Cisco Cisco Comment Type T Comment Status D The first 2 paragraphs are incorrect. Suggested/Remedy Cisco Cisco Comment Type E Comment Status D During the link establishment process, both link partners indicate their EEE capabilities. If EEE is suggested/Remedy Delete the editor's note. Proposed Response Status W PROPOSED ACCEPT. Cisco Cisco Comment Type E Comment Status D The editor's note. The autonegotiation process uses next page messages or extended next page messages as defined not roce. PROPOSED ACCEPT. Cisco Cisco Comment Type E Comment Status D The comment status D The comment status D The comment status D The comment status D Cisco Cisco Cisco Cisco Cisco Cisco Cisco Cisco			
Insert clause number 70 Delete the editor's note. Proposed Response Response Status W PROPOSED ACCEPT. C178 SC 78.3 P192 L1 # 236 C178 SC 78.3 P192 L1 # 236 Barrass, Hugh Cisco Cisco Cisco Comment Type T Comment Status D The first 2 paragraphs are incorrect. Suggested/Remedy Cisco Comment Type E Comment Status D Barrass, Hugh cisco Cisco Comment Type E Comment Status N During the ink establishment process, both link partners indicate their EEE capabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE function may be used independently in either direction. PROPOSED ACCEPT. C/ 12 SC 22.22.6.a P31 L23 # 240 Barrass, Hugh Cisco Comment Type E Comment Status D The editor's note. PROPOSED ACCEPT. C/ 14 SC 14.3.1.2.1 P23 L43 # 237 D Barrass, Hugh Cisco Comment Type E Comment Status D The		D	
PROPOSED ACCEPT. PROPOSED ACCEPT. C1 78 SC 78.3 P 192 L 1 # 236 Barrass, Hugh Cisco Cisco Cisco Cisco Comment Type T Comment Status D The first 2 paragraphs are incorrect. Suggested/Remedy Cisco Comment Type E Comment Status D The editor's note appears to be out of date - there are changes in the clause. Suggested/Remedy Replace first 2 paragraphs of this page with During the link establishment process, both link partners indicate their EEE capabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE function may be used independently in either direction. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. Ci 14 SC 14.3.1.2.1 P 23 L 43 # 237 Carrent Type E Comment Status D The editor's note. Proposed Response Carrent Type E Comment Status D The editor's note. Page 40 PROPOSED ACCEPT. Ci 22 SC 22.2.6.a P 31 L 23 # 240 Ci 14 SC 14.3.1.2.1 P 23 L 43 # 237 The editor's note.			
Barrass, Hugh Cisco Comment Type T Comment Status D The first 2 paragraphs are incorrect. SuggestedRemedy Replace first 2 paragraphs of this page with During the link establishment process, both link partners indicate their EEE capabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE function may be used independently in either direction. The autonegotiation process uses next page messages or extended next page messages as defined in 28C.12, 28C.13 and 73A.4. PROPOSED ACCEPT. CI 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D The editor's note: Proposed Response Status D The ditor's note is no longer necessary. SuggestedRemedy Barrass, Hugh Cisco Comment Type E Comment Status D The ditor's note is no longer necessary. SuggestedRemedy Insert space after "tor" Proposed Response Response Status W PROPOSED ACCEPT. CI 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D The ditor's note is no longer necessary. SuggestedRemedy Insert space after "tor" Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. CI 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D The ditor's note is no longer necessary. SuggestedRemedy Insert space after "tor" Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W	, , ,	W	
The first 2 paragraphs are incorrect. SuggestedRemedy Replace first 2 paragraphs of this page with During the link establishment process, both link partners indicate their EEE capabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE function may be used independently in either direction. The autonegotiation process uses next page messages or extended next page messages as defined in 28C.12, 28C.13 and 73A.4. Proposed Response Response Status W PROPOSED ACCEPT. C/ 14 SC 14.3.1.2.1 P23 L43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D The editor's note. Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy Insert space after "for" Proposed Response Response Status W			
Replace first 2 paragraphs of this page with During the link establishment process, both link partners indicate their EEE capabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE function may be used independently in either direction. The autonegotiation process uses next page messages or extended next page messages as defined in 28C.12, 28C.13 and 73A.4. Point Paint	·····	D	
During the link establishment process, both link partners for the negotiated PHY type then the EEE tapabilities. If EEE is supported by both link partners for the negotiated PHY type then the EEE tunction may be used independently in either direction. The autonegotiation process uses next page messages or extended next page messages as defined in 28C.12, 28C.13 and 73A.4. Proposed Response Response Status PROPOSED ACCEPT. Cl 14 SC 14.3.1.2.1 P23 L 43 # [237] Barrass, Hugh Cisco Comment Type E Comment Status D "for10BASE-Te" missing space SuggestedRemedy D Proposed Response Response Status W SuggestedRemedy Insert space after "for" Proposed Response Response Status W Proposed Response Response Status W		1	
The autonegotiation process uses next page messages or extended next page messages as defined in 28C.12, 28C.13 and 73A.4. Proposed Response Response Status W PROPOSED ACCEPT. C/ 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D "for10BASE-Te" missing space SuggestedRemedy Insert space after "for" Proposed Response Response Status W	EEE is supported by both link partners for	he negotiated PHY type then the EEE function	
PROPOSED ACCEPT. The commenter wishes to thank the editor for rectifying the error. Cl 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D "for10BASE-Te" missing space "for10BASE-Te" missing space Response Status W SuggestedRemedy Insert space after "for" Response Status W Proposed Response Response Status W		e messages or extended next page messages	
Cl 14 SC 14.3.1.2.1 P 23 L 43 # 237 Barrass, Hugh Cisco Comment Type E Comment Status D "for10BASE-Te" missing space D SuggestedRemedy Proposed Response Response Status Insert space after "for" W	, , ,	w	
"for10BASE-Te" missing space Proposed Response Response Status W SuggestedRemedy Insert space after "for" PROPOSED ACCEPT. Proposed Response Response Status W	Barrass, Hugh Cisc)	SuggestedRemedy
Proposed Response Status W	"for10BASE-Te" missing space	D	
	Proposed Response Response Status	w	

proposed responses IEEE	IEEE F	802.3az D1.0 Energy	Efficient Eth	nernet co	mments			Nov 2008
C/ 22 SC 22.2.2.7 P 31 Barrass, Hugh Cisco	L 13	# 241	<i>CI</i> 00 Bennett, N	SC 0 /lichael		P LBNL	L	# 243
Comment Type T Comment Status	D		Comment		Co	mment Status D		
The use of "may" implies that the indication is indication is mandatory when the LPI signalir	s optional. It needs to be	e clear that the	at the		ing the 8-bal		consistent abou	t capitalization of Low
SuggestedRemedy Replace "While RX_DV is de-asserted, the PHY may	indicate that it is receivi	na "		30: 3 Low Powe 8 Iow powe				
With "While RX_DV is de-asserted, a PHY that su			line 3	36:) low powe 3 Low Powe 3 Low powe	er Idle			
that it is receiving" Proposed Response Response Status	147		Suggestee	dRemedy				
Proposed Response Response Status PROPOSED ACCEPT.	vv		Use "	Low Power	Idle" in sente	ences. Use "low powe	er idle" in labels i	n figures and tables.
C/ 22 SC 22.2.29a P 33	L 4	# 242		Response POSED AC	<i>R</i> es CEPT IN PR	ponse Status WIINCIPLE.		
Barrass, HughCiscoComment TypeTComment Status						wer Idle" when it is refe ormal English.	ers to a standard	d defined state. Leave i
The editor's note indicates that a control bit is SuggestedRemedy Add a control bit in Clause 45 PCS registers Change		ock stoppable"	C/ 14 Bennett, N Comment there	Туре Е	Со	P 232 LBNL mment Status D tween the words "for"	L 43 and 10BASE-Te	# 244
While the PHY device is indicating low power shown in if the RX_CLK_stoppable bit is a			Suggestee insert	dRemedy a space				
With			•	Response POSED AC	<i>Res</i> CEPT IN PR	ponse Status WIINCIPLE.		
While the PHY device is indicating low power shown in [figure 22-9a] if and only if the RX_0			Duplic	cate of com	ment #237.			
Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE.	w							
Merge the resolution of this comment and #9	4 to produce:							
While the PHY device is indicating low power than 9 clock cycles after the start of the low p and only if the RX_CLK_stoppable bit is asse	ower idle state as show							

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

Comment ID # 244

Page 51 of 70 11/4/2008 1:52:39 PM

proposed responses I	IEEE	IEEE P	802.3az D1.0 Energ	rgy Efficient Ethernet comments			Nov 2008
C/ 25 SC 3 Bennett, Michael	<i>P</i> 54 LBNL	L 16	# 245	C/ 72 SC 6.4a Bennett, Michael	<i>P</i> 173 LBNL	L 37	# 248
Comment Type ER The cable plant specific actually in 25.4.6. SuggestedRemedy change the reference t	Comment Status D cations for untwisted shielded to 25.4.6	pair (UTP) of TI	P-PMD 11.1 are	Comment Type ER the Signal_Detect true for line 41 SuggestedRemedy remove <units> fre</units>	units are already included so <ur< td=""><td>nits> should be re</td><td>emoved. The same is</td></ur<>	nits> should be re	emoved. The same is
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACC	Response Status W		
Note: This error exists Cl 45 SC 2.7.13a Bennett, Michael	<i>P</i> 98 LBNL	L 5	# 246	CI 78 SC 1.2 Bennett, Michael Comment Type EF The PHY ojective	P 188 LBNL Comment Status D for 1000BASE-KX is missing	L 35	# 249
Comment Type TR there is no EEE advert SuggestedRemedy define a bit for 1000BA Proposed Response PROPOSED ACCEPT	Response Status W	3ASE-KX in Tab	le 45-145	SuggestedRemedy Insert 1000BASE- as shown: 4) 1000BASE-KX 5) 10GBASE-KR	KX below objective 3) 10GBASE-	-T and renumber	remaining objectives
Cl 46 SC 1.7 Bennett, Michael	<i>P</i> 103 LBNL	L 25	# 247	6) 10GBASE-KX4 Proposed Response PROPOSED ACC	Response Status W		
Comment Type E It looks like an editor's same line	Comment Status D note follows the primative PL	S_DATA_VALID	indication on the	CI 78 SC 78.5 Bennett, Michael Comment Type ER	LBNL	L 10	# 250
SuggestedRemedy move the note to it's ov Proposed Response PROPOSED ACCEPT	Response Status W			In the protocol col SuggestedRemedy	umn of Table 78-2, 10GBASE-KX -KX with 1000BASE-KX <i>Response Status</i> W	(should be 1000	BASE-KX

proposed responses IEE	E	IEEE P	802.3az D1.0 Energy	Efficient Ethernet co	mments		Nov 2008
C/ 78 SC 1.3 Bennett, Michael	<i>P</i> 190 LBNL	L 29	# 251	Cl 78 SC 3 Bennett, Michael	P 1 92 LBNL	L 7	# 254
We should be consistent in Power Idle mode and EEE Low Power Idle, that is the SuggestedRemedy replace EEE mode with Lo Proposed Response PROPOSED ACCEPT IN I	mode. Since the method term we should use. We Power Idle mode Response Status W PRINCIPLE.	we use to reduc		peroid and "on" s SuggestedRemedy replace "advertise	ee Annexes 28A and 73A on add hould be "for" ement.See Annexes 28A and 73/ See Annexes 28A and 73A for ad <i>Response Status</i> W	A on additional de	·
there are no units associat uggestedRemedy add "nsec" after Tw_phy	P 195 LBNL Comment Status D	L 4	# 252	inital PAM2 aquis	Teranetics	e PAM2 PRBS33	will be continuously
Depends should be Depen SuggestedRemedy Replace Depends with Dep	C C	L1	# 253	PROPOSED ACC The comment isn on page 128, line See also commen	't clear to me, but I think this is th 12.	ne same conclusio	on as the editor's note

C/ 55 SC 55.3.5.2 P 126 L 35 # 256 Fellado, Jose Teranetics	Cl 55 SC 55.3.2 Tellado, Jose	2.2.21	P 124 Teranetics	L	# 258
Comment Type T Comment Status X	Comment Type TR	Cor	mment Status D		
Comment concerning Editor note: This is an implementation detail of the rx. Alert signal is easy to detect with very low latency. Filter/timing updates per lane are happening every 128x4 frames. Making the update a couple of frames later (<<512) will have no effect		of 2. Less ir	mplementation headac		e period is independent ultple modems in a
Regarding coruption of subsequent LDPC codeword: This is implementation detail also. We will have several Wake LDPC codewords and will be	SuggestedRemedy				
transitioning rx from LPI to normal data mode. First LDPC Frame will likely be corrupted anyway and has no unique information. See presentation	Proposed Response For discussion by t		ponse Status W		
SuggestedRemedy		0 1			
Proposed Response Response Status W	The editor suggest Tq+Tr=128	s changing	the allowed Tq/Tr valu	es to the follo	wing {Tq, Tr} pairs, with
For discussion by the group.	{4,124}, {8, 120}, {1	16, 112}, {3	2, 96}		
C/ 55 SC 55.3.2.2.21 P 124 L # 257 Terlado, Jose Teranetics	C/ 55 SC 55.3.4 Tellado, Jose	5.1	P 126 Teranetics	L	# 259
Comment Type TR Comment Status D	Comment Type TR	Cor	mment Status D		
If link partner in LPI then offset by~1/2 LPI super-frame, othewise Master starts refresh	-53dBm is too low.	lt's 58dB b	elow the PBO=0 tx lev	el and below t	x PSD mask.
cycle~1/2 frame after Quiet and Slv 1 frame after. This prevents case where both enter simultanousely without knowing what LP is doing.	SuggestedRemedy				
SuggestedRemedy	Proposed Response	Res	ponse Status W		
	PROPOSED REJE				
Proposed Response Response Status W		-			
PROPOSED REJECT.	The editor believes suggest a remedy.		omment may be valid, b	out requests th	nat the commenter
More details are needed to support this comment and the synchronization mechanism. It is not clear what text is required in the standard to make this scheme work.	[Note that the -53d transmitter in 55.4.3		s taken from the 802.3a	an requiremen	t for a disabled
At least one synchronization proposal will be presented at the November meeting.		-			

proposed respo	esponses IEEE IEEE P802.3az D1.0 Ene				y Efficient Ethernet comments			Nov 2008
C/ 55 SC 5 Tellado, Jose	5.3.5.2	P 126 Teranetics	L 19	# 260	C/ 99 SC Diab, Wael	P 7 Broadcom	L 13	# 263
51		nment Status D ote: Set TBD=0. No ne	ed for extra sym	bols.	<i>Comment Type</i> E Font on the TF Chair	Comment Status D and Editor seems to be smalle	r and different tha	n WG officer names.
SuggestedRemedy	/				SuggestedRemedy Please adjust font to r	natch list above		
Proposed Respons PROPOSED A	se Resp ACCEPT IN PRIN	oonse Status W NCIPLE.			Proposed Response PROPOSED ACCEP	Response Status W		
	remove the requ				C/ 01 SC 5 Diab, Wael	P18 Broadcom	L 1	# 264
Cl 99 SC Diab, Wael		P 3 Broadcom	L 4	# 261	Comment Type ER	Comment Status D eviations that seem to be miss	ing for oxomplo I	DI
,		nment Status D r Backplane Ethernet.			SuggestedRemedy			
SuggestedRemedy Suggest langua Proposed Respons PROPOSED A	age similar to wl se Resp	hat is already there for bonse Status W	TP Ethernet		Please add the abbre Proposed Response PROPOSED ACCEP	Response Status W		
<i>Cl</i> 99 <i>SC</i> Diab, Wael		P 3 Broadcom	L 5	# 262				
21		nment Status D red in the abstract or k	eywords.					
	g some languag	e to cover LLDP in the level energy efficiency						

Proposed Response Response Status W

PROPOSED ACCEPT.

100 SC 0 P L # 265	CI 48 SC 2.4.2 P110 L18 # 267				
iab, Wael Broadcom	Diab, Wael Broadcom				
omment Type TR Comment Status D	Comment Type TR Comment Status D				
There are several instances throughout the document where parameters are defined in multiple places, values are given in multiple places or different terminology is used for the same thing.	It is unclear how frequently the /D20.5/ has to be inserted for all the XGMII colums to respond LPI. Conversly, it is also unlceat how long of an absence of the /D20.5/ character for the XGMII to respond as Idle.				
This can be more difficult to maintain and if there are subtle differences then it creates a potential conflict. Here are some examples:	SuggestedRemedy Please specify the duration / rate that the /D20.5/ character has to appear				
 Table 78-2 summarizes key parameters and they are listed as TBD. However, a subset of these values are defined in the various PMD clauses that are being modified Section 78.1.3 overviews the LPI procedure. This text or portions of it are repeated in 	Proposed Response Response Status W PROPOSED REJECT.				
other places with inconsistent terminology. For instance, C78 used the terminology synchronous, while C55 uses the terminology symmetric. uggestedRemedy	The text seems to be clear. Every time the XGMII coding of TXC/TXD indicates LPI, the PCS encodes K.28.0, K28.3 or K28.5 in all columns except one (chosen randomly) that is encoded K.20.5.				
Please consolidate to normative requirements in one place and consistant terminology. If readability is desired, a suggestion would be to make use of cross references.	There is nothing to suggest that any "rate" or "frequency" is suggested other than the XGMII clock frequency.				
PROPOSED ACCEPT IN PRINCIPLE.	C/ 00 SC 0 P L # 268				
Harmonization of terms will be carried out by the editorial team.	Diab, Wael Broadcom				
Clause 78 will contain a summary of key parameters for different PMDs but the normative text will be left to the specific PMDs	Comment Type TR Comment Status D Has the TF decided how to handle TPPMD? There seems to be several references in the editor's notes that there is a possibility to pull in TPPMD. There is significant technical content in editor's notes related to this.				
/ 22 SC Figure 22-20a P 34 L 12 # 266 iab, Wael Broadcom	SuggestedRemedy				
omment Type TR Comment Status D	Suggest that a a decision is made on this prior to WG preview so that document can be cleaned up one way or the other.				
As drawn, the figure seems to violate the layering conventions we use, specifically the	Proposed Response Response Status W				
system behaviour signals. I believe that the intent is for the system's management to be able to access LP_IDLE.request and the LP_IDLE.indicate not that there signals which are	PROPOSED ACCEPT IN PRINCIPLE.				
going around the MAC.	While we originally considered pulling TPPMD into 802.3, we were unable to find the resources to take on this task.				
Please delete the system transmit and receive behaviour arrows. The management access can be explained in the text.	Editors notes indicating that we will pull in TPPMD will be removed.				
roposed Response Response Status W					
PROPOSED ACCEPT IN PRINCIPLE.					
See #282					
The station management will be shown as the origin of these signals.					

proposed responses IEEE	IEEE P	802.3az D1.0 Energy	efficient Ethernet comments				Nov 2008	
Cl 01 SC 4 P 17 Diab, Wael Broadcom	L 1	# 269	C/ 24 SC 24.1.1 Booth, Brad	Р 36 АМСС	L 13	# 272		
Comment Type TR Comment Status D There are several definitions that seem to be missing signal, refresh signal, 10BASE-TE etc. SuggestedRemedy SuggestedRemedy Please add the definitions Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. V	g for example LP	I, LPI mode wake	Comment Type ER Currently should not I SuggestedRemedy Remove currently from Proposed Response PROPOSED ACCEP	Response Status W	00BASE-TX.		LATE	
Cl 00 SC 0 P Diab, Wael Broadcom Comment Type TR Comment Status D For management, we will also need to work on the c SuggestedRemedy Please add the Annexes prior to WG ballot Proposed Response Response Status W PROPOSED ACCEPT.	L ontents of the C3	# 270	SuggestedRemedy	P 36 AMCC Comment Status D s confusing as may implies that nally from the sentence. Response Status W T.	L 8	# 273	LATE	
Cl 78 SC 78.4 P 193 Diab, Wael Broadcom Comment Type TR Comment Status D Once 802.3bc is completed, we will need to move th draft C77 (and any associated Annexes). SuggestedRemedy Please use this comment as a placeholder to do that work with the editrors as needed. Proposed Response Response Status W			SuggestedRemedy Change to read:	P 36 AMCC Comment Status D etter stated to avoid confusion. Energy Efficient Ethernet as de Response Status W T IN PRINCIPLE.	L 33 escribed in Clause 78	# <u>274</u>	LATE	

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

Nov 2008

LATE

278

Cl 24 Booth, Bra	SC 24.1.4.1 ad	<i>P</i> 36 AMCC	L 53	# 275		C/ 24 SC 24.1.1 Booth, Brad
Comment Place	51	Comment Status D in e) is confusing. Needs cla	arification.		LATE	Comment Type T Eliminate the use of v
e) Op Proposed	ge to read:	generate) MII opcodes to ent Response Status W IN PRINCIPLE.	ter or exit low po	ower idle state.		SuggestedRemedy Change will enter to e Proposed Response PROPOSED ACCEP
Pleas	e refer to commer	nt #2				C/ 14 SC 14
Cl 24	SC 24.1.4.2	P 37	L 14	# 276		Booth, Brad
Booth, Bra Comment The F	Type ER	AMCC Comment Status D the statement about power re	duction.		LATE	Comment Type TR I have some concern naming convention re
Suggeste		····				SuggestedRemedy
Chan e) Op Proposed PROF	ge to read: tionally, receive a <i>Response</i> POSED ACCEPT		C		and	Change the port type Proposed Response PROPOSED REJEC There is not a port typ was discussed and th
		rase style consistent with oth nd processing low power idle			CS;	C/ 14 SC 14.3.1.2 Booth, Brad
C/ 24 Booth, Bra	SC 24.2.2 ad	Р 37 АМСС	L 39	# 277		Comment Type TR Cabling should be ref
	of the term option i	Comment Status D s confusing.			LATE	Class D cabling is IS SuggestedRemedy Change class to Clas
	ge to read:	nay support the low power idle	e state by			Proposed Response PROPOSED ACCEP
	the change also t ransmit process r	o the Transmit: nay support the low power idl	e state by			
PROF	Response POSED ACCEPT se of "mode" is pe	Response Status W IN PRINCIPLE. ending on the consensus of th	ne terminology u	used in EEE drafi		
(note:	similar change w	ill also be made on page 39 li	ine 1)			
TYPE: TR	/technical require	d ER/editorial required GR/g patched A/accepted R/rejec	jeneral required			eneral tten C/closed U/unsatisfied

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

Eliminate the use of will.				
SuggestedRemedy Change will enter to ente	ers.			
Proposed Response PROPOSED ACCEPT.	Response Status	w		
C/ 14 SC 14 Booth, Brad	Р 2 АМСС		# 279	
Comment Type TR I have some concern abo naming convention requi	U	-	L type. Does the port type	ATE
SuggestedRemedy Change the port type fro	m 10BASE-Te to 10	BASE-TE.		
Proposed Response PROPOSED REJECT.	Response Status	w		

P 36

AMCC

Comment Status D

L 10

There is not a port type naming convention defined. During an earlier meeting, this issue was discussed and the preference at that time was for using a lower case for 10BASE-Te.

C/ 14	SC 14.3.1.2	P 22	L 41	# 280				
Booth, Bra	d	AMCC						
Comment	Type TR	Comment Status D		LATE				
	Cabling should be referred to as Class D, not class D. And the referenced specification for Class D cabling is ISO/IEC 11801.							
SuggestedRemedy								
Chang	e class to Class	and reference 11801.						

Proposed Response Response Status W PROPOSED ACCEPT.

						" [===]
C/ 22 SC 22.2.2.9a P 33 Booth, Brad AMCC	L 4	# 281	C/ 99 SC 99 Booth, Brad	Р 5 АМСС	L 5	# 283
Comment Type TR Comment Status D Second paragraph is missing two references. RX_CLK paragraph is not required. SuggestedRemedy Change to read:	_stoppable t	<i>LATE</i> bit is undefined. Third	Comment Type E Period in front of Secti SuggestedRemedy Please remove period			LATE
as shown in Figure 22-9a if the			Proposed Response PROPOSED ACCEPT	Response Status W		
Define RX_CLK_stoppable bit and add reference to 22.	2.2.9a.		C/ 14 SC 14.1	Dee	1 47	# [22.4
Delete third paragraph.			C/ 14 SC 14.1 Booth, Brad	Р 20 АМСС	L 17	# 284
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			Comment Type ER	Comment Status D		LATE
See resolution to #242. The third paragraph matches th	e style of the	base document for all		r to the 10BASE-Te as being ocol described in Clause 78.	the Energy-Effici	ent PHY type as this
of the figures in this subclause.			SuggestedRemedy			
C/ 22 SC 22.7.1 P 34	L 1	# 282		Energy-Efficient relative to 10 age range requirements.	BASE-Te and sti	pulate that this port
Booth, Brad AMCC			Proposed Response	Response Status W		
Comment Type TR Comment Status D Figure 22-20a conflicts with Figure 22-3.		LATE	PROPOSED REJECT	•		
SuggestedRemedy PLS_DATA.request arrow is in the wrong direction. TX, RX_DV mapping to PLS_DATA_VALID.indicate mappir not shown, and while not used in full duplex, they should LP_IDLE's should come from Station Management.	ng is not sho	wn. COL and CRS are	10BASE-Te uses the s by lowering transmit ve C/ 22 SC 22.2.1	P 30		
Proposed Response Response Status W			Booth, Brad	AMCC		
PROPOSED ACCEPT IN PRINCIPLE.			Comment Type ER Why is it Low Power Io	Comment Status D dle here but low power idle els	sewhere in the cl	LATE ause.
The diagram needs redrawing, with the following:			SuggestedRemedy			
1.PLS_DATA.request arrow is in the wrong direction in the change as part of this amendment as a service to he		in 802.3-2008 - make	The lowercase versior Proposed Response	h, low power idle, should be u	sed.	
2. Add in TX_CLK and RX_CLK.	umanity.		PROPOSED ACCEPT	Response Status W		
3. Add a note that RX_DV, COL & CRS mapping is unc	hanged and	not shown.				
4. The LP_IDLE's should come from Station Manageme	ent.					
TYPE: TR/technical required ER/editorial required GR/gen	eral required	L T/technical E/editorial G/ge	eneral			Page 59 of 70

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

Comment ID # 285

Page 59 of 70 11/4/2008 1:52:40 PM

proposed responses IE				Efficient Ethernet comme	51110		Nov 2008
C/ 24 SC 24.1.1 Booth, Brad	<i>Р</i> 36 АМСС	L 10	# 286	C/ 55 SC 55.3.2.2. McClellan, Brett	21 P 129 Solarflare	L 51	# 292
Comment Type ER Terms seem to be mixed	Comment Status D up again.		LATE	Comment Type E Sentence is awkward:	Comment Status D The SLEEP signal is signaled	using 9 full LDF	PC frames
low power idle state, etc. For example, the PHY Proposed Response	of low power mode, low pow Use the term low power id will enter the low power idle <i>Response Status</i> W	le state.		SuggestedRemedy The SLEEP signal use Proposed Response PROPOSED ACCEPT The editor will clarify th	Response Status W		
PROPOSED ACCEPT IN Pending on the consensu	I PRINCIPLE. us of the terminology used in	n EEE draft.		C/ 55 SC 55.3.5.2.		L 21	# 293
character to indicate LPI.	P 110 Solarflare Comment Status D choice to break up XAUI co From my limited knowledg	e of the XGXS P	CS receiver it appears	Lundy, Sean Comment Type ER Ipi_quiet_period should SuggestedRemedy	Aquantia <i>Comment Status</i> D d be replaced with lpi_quiet_tir	ne	LATE
column alignment and brochestic clock rate compensation,	A columns will prevent the eaking the R column may thus causing fault condition quiring additional recovery t	v prevent the PC	S from performing	Proposed Response PROPOSED ACCEPT	Response Status W		
SuggestedRemedy I would like to hear comm	nent from vendors of the XG	SXS PCS on whe		C/ 55 SC 55.3.5.2. Lundy, Sean	1 P 131 Aquantia	L 31	# 294
can direct me to a preser	as already been reviewed w ntation justifying the change <i>Response Status</i> W		ce perhaps the editor	Comment Type ER lpi_wake_period is not	Comment Status D defined		LATE
PROPOSED ACCEPT IN	I PRINCIPLE.			SuggestedRemedy Change to lpi_wake_ti	me		
See #63				Proposed Response	Response Status W		

PROPOSED ACCEPT.

proposed responses I	EEE	IEEE Pa	802.3az D1.0 Energy I	Efficient Ethernet comme	ents		Nov 2008
C/ 55 SC 55.4.2.2. Lundy, Sean	1 P 143 Aquantia	L 24	# 295	C/ 55 SC Many Parnaby, Gavin	<i>P</i> Solarflare Com	<i>L</i> munica	# 298
Comment Type ER PHY Frame should be SuggestedRemedy	Comment Status D LDPC Frame. This occurs on	line 24 and line 2	LATE 25.	Comment Type E Sleep and SLEEP are states. See for example 55.3.2	Comment Status D used throughout the document.	. Similar capita	Late email
Proposed Response PROPOSED ACCEPT	Response Status W			SuggestedRemedy Standardise on one. St			
The editor will replace	PHY frame with LDPC frame.			Proposed Response PROPOSED ACCEPT	Response Status W		
Cl 55 SC 55.2.2.3. Parnaby, Gavin Comment Type E	I P 119 Solarflare Con Comment Status D	L 10 nmunica	# 296	<i>Cl</i> 55 <i>SC</i> 55.3.5.2 Parnaby, Gavin	P 126 Solarflare Com	L 23 munica	# 299
Sentence is not gramm SuggestedRemedy			Lato onian	Comment Type T Active pair is not define	Comment Status D ed.		Late email
	nd the transmit function' Response Status W			SuggestedRemedy State that the active pa	ir defines only which pair will b	e used for the	next refresh.
PROPOSED ACCEPT				[Some earlier alert prop appear but this is no lo	posals also used active pair to on nger the case].	determine whe	ere the alert would
Cl 55 SC 55.1.4 Parnaby, Gavin	P 118 Solarflare Con	<i>L</i> nmunica	# 297	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Type E Figure 55-4 contains tv	Comment Status D vo descriptions 'dashed rectar	gles are used to	Late email indicate signals'	The editor will clarify th	e text as suggested.		
SuggestedRemedy Delete one description							
Proposed Response	Response Status W						

PROPOSED ACCEPT.

proposed	responses	IEEE
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IEEE P802.3az D1.0 Energy Efficient Ethernet comments

C/ 55 SC 55.3.5.2	2 P 126	L 30	# 300	CI 55 S	SC 55.3.5.2	P 126	L 40	# 302
Parnaby, Gavin	Solarflare Con	nmunica		Parnaby, Gavi	n	Solarflare Co	mmunica	
Comment Type T	Comment Status X		Late email	Comment Typ	e T	Comment Status D		Late ema
replaced by the alert and therefore cannot precoded refresh sig particularly a concerr	receivers may synchronize train sequence. In the present propo- be used to update coefficients i nal. Therefore the alert could co n if the alert replaces a refresh s	sal alert is pam- n the same mar rrupt coefficients ignal. The alert i	2, but not precoded, iner as the pam-2 s / timing. This is s followed	Imprecise difficult an	d cause inte	ation could limit power savings properability problems.	s opportunity, ma	ake testing more
immediately by PAM	16 so there is little opportunity t	o recover the co	efficients.	See also i	ems 4) and	5) on page 128		
[however, alert corru	ots only 1 pair]			SuggestedRer	nedy			
SuggestedRemedy				Use the sy meeting.	nchronizatio	on scheme proposed in prese	ntation submitte	d to the November
See presentation.				Proposed Res	ponse	Response Status W		
Proposed Response For discussion by the	Response Status W			For discus	sion by the	group.		
	9			C/ 55 S	SC 55.3.5.2	P 128	L 12	# 303
CI 55 SC 55.3.5.2		L 30	# 301	Parnaby, Gavi	n	Solarflare Co	mmunica	
Parnaby, Gavin	Solarflare Con	nmunica		Comment Typ	e T	Comment Status D		Late ema
	Comment Status X lert occurs at the same time as clear whether this refresh is tran		<i>Late email</i> other pair? None of	PAM-2 tra	ining sequei			
If the refresh is not tr	anomitted this could could proc	lama with adap	ive filtere which are			as it reduces the number of o	ptions in the star	ndard.
	ansmitted, this could cause prot 2 precoded data at that time.	bierns with adap	live lillers, which are	SuggestedRer	,			
SuggestedRemedy				Make it a sequence.		that LPI capable PHYs suppo	ort the long LFSF	R PAM-2 training
See presentation				Proposed Res	ponse	Response Status W		
Proposed Response	Response Status W			PROPOSI	ED ACCEPT	IN PRINCIPLE.		
For discussion by the	group.			PAM-2 tra	ining sequei	equirement that EEE capable nce after initial training. The lo	ong LFSR trainin	g sequence will be

PAM-2 training sequence after initial training. The long LFSR training sequence will be used for refresh signals during the LPI state. It is not a requirement that EEE capable PHYs use the long LFSR sequence during initial training.

proposed responses IEEE IEEE IEEE P802.3az D1.0 Energy	Efficient Ethernet comments	Nov 2008
C/ 55 SC 55.3.5.2 P 129 L 42 # 304 Parnaby, Gavin Solarflare Communica	C/ 55 SC 55.3.5.4 P 133 L # [Parnaby, Gavin Solarflare Communica	306
Comment Type T Comment Status D Late email tx_lpi_state_active should be defined more rigorously.	Comment Type T Comment Status D The state diagrams are old.	Late email
When does the LPI state start and end ? SuggestedRemedy Define that the LPI state begins immediately after the sleep finishes and lasts until the alert is sent (on the tx side) / detected (on the rx side). Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Editor will clarify that the LPI state begins immediately after the sleep finishes and lasts until the alert is sent completely (on the transmit side) and on the receive side lasts from when the sleep is detected until the alert is detected.	They should be updated. SuggestedRemedy See presentation at November meeting Proposed Response Response Status W For discussion by the group. New state diagrams will be presented at the November meeting. C/ 55 SC 55.3.5.4 P 135 L # [307
Cl 55 SC 55.3.5.2.1 P 131 L 632 # 305 Parnaby, Gavin Solarflare Communica Comment Type E Comment Status D Late email The timer names do not match those used in other clauses (e.g. Clause 40). Though this is unavoidable to some extent, it can be improved. SuggestedRemedy Replace lpi_tx_phy_wake_timer with lpi_wake_timer There may be other similar changes. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Parnaby, Gavin Solarflare Communica Comment Type E Comment Status D The dashed box linestyle does in the proposed Figure 55-15 does not match the proposed Figure 55-17 on page 137. Several figures are missing text specifying that the transitions/states in the dash are for EEE capable PHYs only SuggestedRemedy Use the linestyle on page 137 throughout the text for eee states. Add text to the figures. Proposed Response PROPOSED ACCEPT. W	

/ 55 SC 55.3.5.4 P14	-	# 308	C/ 55	SC 55.3.5.2	P 139	L	# 310
arnaby, Gavin Solarf	are Communica		Parnaby, Gav	vin	Solarflare C	ommunica	
omment Type T Comment Status Proposed Figure 55-9	D	Late email	Comment Ty Proposed	<i>pe</i> T d Figure 55-19	Comment Status D		Late emai
This state machine should not be in the PCS The wake state is not required.	. Move it to the PMA.				nachine the sleep signal co uld be transmitted in state ⁻		or 10 frames [since up
uggestedRemedy See presentation.				sleep frame ma ects sleep.	ay not be detected by the F	PCS if it powers de	own the PMA as soon
Move the state machine into the PMA Rx, re roposed Response Response Status				ed. There is still	ignal is used to time refres I an ambiguity if the start of		
For discussion by the group. New state diagrams will be presented in the	November meeting.		SuggestedRe Use the	2	n mechanism described in t	the submitted pre	sentation.
1 55 SC P	L	# 309			nechanism depends on tim Ived another way.	ing based on the	sleep signal then this
arnaby, Gavin Solarf	are Communica		Proposed Re	esponse	Response Status W		
omment Type E Comment Status General.	D	Late email			IN PRINCIPLE.	tion mechanism.	
Check capitalization of auto-negotiation			Any sync	chronization me	echanism needs to take this	s issue into accou	int.
Use a consistent capitalization.			At least of	one proposal fo	or a synchronization mecha	nism will be prese	ented at the November
roposed Response Response Status	w		meeting.				
PROPOSED ACCEPT.			C/ 55 Parnaby, Gav	SC 55.1.3.1 vin	P 116 Solarflare C	L 11 ommunica	# 311
			Comment Ty		Comment Status D		Late emai
			The PMA	, A supports both	a low power idle transmit suggests there is only one l		ower idle receive state.
			SuggestedRe	emedy			
			Change idle rece		e PMA supports a low pow	er idle transmit st	ate and a low power
			Proposed Re	esponse	Response Status W		
				SED ACCEPT.			

Page 64 of 70 11/4/2008 1:52:40 PM

	IEEE	IEEE P	802.3az D1.0 Energy E	Efficient Etheri	net comme	nts			Nov 2008
<i>Cl</i> 55 <i>SC</i> 55.3.5.2 Parnaby, Gavin	P 126 Solarflare Con	L 24 nmunica	# 312	<i>Cl</i> 55 Parnaby, Gavi	SC 55.3.5.2.1 in	-	1 are Comm	L 21 Junica	# 315
Comment Type T The clause does not d SuggestedRemedy	Comment Status D define what quiet means for a n	on-active pair.	Late email			Comment Status r is defined as using a t.		qual to lpi_qu	Late email iet_period LDPC
State that pairs that ar	re not transmitting the refresh s e 55.3.5.1, except if the alert si			SuggestedRea State that	-	resh_timer uses a per	riod equal t	to lpi_refresh	_period LDPC frames.
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Res PROPOS	sponse ED ACCEPT.	Response Status	w		
Cl 55 SC 55.3.5.2 Parnaby, Gavin	P 126 Solarflare Con	L 37 nmunica	# 313	C/ 55 Parnaby, Gavi	SC 55.3.5.4	P 13 Solarfi	3 are Comm	<i>L</i> unica	# 316
Comment Type T The editor's note state	Comment Status D es that the non-THP encoded s	ignal could corru	Late email upt following symbols.		ols in the stat	<i>Comment Status</i> e diagrams are not co ages 136, 139, 140,14	orrect (see	page 11 of th	<i>Late email</i> ne draft).
goes away. [this initial	delay line of the THP is initialize lization is required during link tr			SuggestedRe	,	agrams use the symb	ol set desc	cribed on pag	ge 11.
	line of the THP is initialized du	uring the alert siç	ynal.	Proposed Res PROPOS	•	Response Status	w		
Proposed Response For discussion by the	Response Status W group.						update the	em to use the	appropriate symbols.
Cl 55 SC 55.3.5.2	.2 P 129 Solarflare Con	L 52 nmunica	# 314	C/ 55 Parnaby, Gavi	SC 55.3.5.4 in	P 13 Solarfi	5 are Comm	<i>L</i> Junica	# 317
Parnaby, Gavin			Late email	Comment Typ	e E	Comment Status	D		Late email
Comment Type E	Comment Status D ts that the request goes away c	once the PHY tra		The transi	itions from the	TX_INIT block cross	inappropri	iately.	
Comment Type E		once the PHY tra		SuggestedRe	medy	TX_INIT block cross		iately.	
Comment Type E The definition suggest SuggestedRemedy Rewrite :			ansitions to LPI state.	SuggestedRe Redraw th Proposed Res	medy ne transition lin	nes so that they do no Response Status	ot cross.	iately.	

C/ 55 SC 55.3.5.4	P 138	L	# 318	C/ 55	SC 5	5.6.3	P 146	L 39	# 321
Parnaby, Gavin	Solarflare Com	nmunica		Parnaby,	Gavin		Solarflare Co	mmunica	
state machine can exit SuggestedRemedy The transition should b Proposed Response For discussion by the g	Comment Status D (_W should not be 'R_TYPE(r back to data mode with an err e R_TYPE(rx_coded) = I <i>Response Status</i> W roup. I be presented at the Novemb	or condition.	<i>Late email</i> ce in this case the	l think PHYs comp The e S <i>uggeste</i>	we need are able romising exact requ	to look to returr PHY and irements	Comment Status D pi_wake_time is chosen from closely at this requirement, to to an error free PAM-16 dat d system power savings. s for this parameter are depe	o ensure that in t a mode after the ndent on Tq/Tr/ f	he worst conditions wake frames, without
SuggestedRemedy	P 132 Solarflare Com Comment Status D books for a better way to detect er of C and not /l/ and not /L/ Response Status W		# <u>319</u> Late email	A pre <i>Proposed</i> For di	sentation Respons	will be s se by the g	eds more discussion. ubmitted for the November n <i>Response Status</i> W roup. upporting data.	neeting.	
C/ 55 SC 55.3.5.2. Parnaby, Gavin	2 P 129 Solarflare Corr	L 51 nmunica	# 320						
	Comment Status D ower idle mode; everywhere e bes not state whether this is a								
Same for rx_lpi_req									
SuggestedRemedy Change mode to state. tx_lpi_reg.	Clarify that the state is the lov		smit state for						
	•								

CI 78	SC	78.2.3		P 191	L 37	# 322		CI 78	SC 7	8.4.2.1		P 193	L 40	# 323
Parnaby,	Gavin		S	Solarflare Com	imunica			Parnaby, Ga	avin			Solarflare Co	mmunica	
Commen	t Type	т	Comment St	atus D		Late	email	Comment Ty	ype	т	Comment S	tatus D		Late ema
Tw_F	Phy as de	efined doe	es not match the	description in	Clause 55.			The min	nimum s	system w	ake time also r	needs to be b	ounded.	
trans	mitted. N	Ay unders	tanding was that	t the first idles	are the wake s	s capable of being signal, during which ata may be sent.			n befor				for sleep, alert, t 9+4+1=14 LDP	phy wake at a C frames with the
Also,	, in claus	e 55, the	wake time is def	ined as the tin	ne the wake sig	gnal is sent.		SuggestedR Add a d			minimum wak	e time for ead	ch PHY type.	
Why	does the	e definitior	n here include th	e MDI interfac	e?			Proposed R	espons	е	Response St	tatus W		
Suggeste	edRemed	dy												
the fi assu	rst codev ming erro	words on or-free op	the XGMII are gr eration.	uaranteed to b		interface and when the remote PHY,	the	per eacl	ĥ PHY t	ype. Thu				able but rather fixed ate subclauses and
	•		ke time / phy wak					CI 78	SC 7	8.4.2.4		P 194	L 29	# 324
'	d Respor		Response Sta	atus W				Parnaby, Ga		0.4.2.4		Solarflare Co		# 324
PRO	POSED	ACCEPT	IN PRINCIPLE.							т				Late ema
			PHY should be d ce and moment F			veen reception IDLE		Comment Type T Comment Status D Late end The sentence regarding refresh duty cycle changes is very vague. What is 'reasonably sure'? In 10GBASE-T the timing of this parameter change is critical. In 10GBASE-T the timing of this parameter change is critical.						Late en
						e 124, lane 19): "Afte	ər							
the A	LERT m	lessage th	ne PCS complete mal mode by se	es the transitio	n from low signal which i	is composed of								
lpi_w	ake_time	e repeate	d /l/ codewords e	encoded using	the 65B-LDPC	C coding technique"		SuggestedR	Remedy					
assu	mption is		ds" XGMII-driven hen current Tw_							•	Ū	·		after a link retrain?
modi	fied.										it may be prob	plematic to tin	ne the change or	both sides of the link.
					on delay) into T	w_PHY. Not clear	· · · · · · · · · · · · · · · · · · ·	Proposed R	•		Response St	tatus W		
whet	her there	e is any ac	dvantage in doing	g so				PROPO	SED R	EJECT.				
											aragraph recor ner has receive		ling at least 4 LL	DP messages to
								seems o	clear that	at the new		will be used d	luring the next as	asserted therefore it ssertion of LPI. LLDP

proposed responses IEEE IEEE P802.3az D1.0 Energy	Efficient Ethernet comments	Nov 2008
Cl 78 SC 78.5 P 194 L 45 # 325 Parnaby, Gavin Solarflare Communica	CI 24SC 24.2.3.4P 43L 22Dove, DanielProCurve Networking	# 328
Comment Type E Comment Status D Late email 'The maximal PHY recovery time is defacement for different protocols' seems to be a typo.	Comment Type ER Comment Status D Spelling - continuos	LATE
SuggestedRemedy change to 'A maximum PHY recovery time is defined for each physical protocol'	SuggestedRemedy Spelling - change continuos to continuous.	
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.	
Cl 78 SC 78.1.4 P 190 L 33 # 326 Parnaby, Gavin Solarflare Communica	CI 24SC 24.2.3.4P 43L 43Dove, DanielProCurve Networking	# 329
Comment Type E Comment Status D Late email There are 7 protocols listed in the table. The text says 6 protocols.	Comment Type ER Comment Status D Grammar: "is waked up"	LATE
SuggestedRemedy Change text to 'the following seven'	SuggestedRemedy Change to "is woken up"	
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 78SC 78.2.1P 191L 6# 327Parnaby, GavinSolarflare Communica	Cl 25 SC 25.4.11.1 P 57 L 16 Dove, Daniel ProCurve Networking	# 330
Comment Type E Comment Status D Late email The subclause defines an LPI state. For PHYs that support asymmetric lpi, there are lpi transmit and receive states. E Comment Status E	Comment Type ER Comment Status D Figure 25-1 has a spelling error in the PLUS_V state. "Positove"	LATE
SuggestedRemedy	SuggestedRemedy Change to "Positive"	
Add LowPowerTx_st and LowPowerRx_st to the description, for PHYs that support asymmetric LPI states. Proposed Response Response Status W	Proposed Response Response Status W PROPOSED ACCEPT.	
PROPOSED ACCEPT.	C/ 40 SC 40.4.6.1 P 88 L 44 Dove, Daniel ProCurve Networking	# 331
	Comment Type ER Comment Status D Spelling	LATE
	SuggestedRemedy Change "PHY Contrl" to "PHY Control"	
	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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

IEEE P802.3az D1.0 Energy Efficient Ethernet comments

Cl 48 SC 48.2. Dove, Daniel	4.2 <i>P</i> 110 ProCurve N	L 12 etworking	# 332	C/ 25 Dove, Danie	SC 25.4.11.5	P 60 ProCurve N	L 19 etworking	# 335
SuggestedRemedy	Comment Status D rom symbol in the text	"@".	LATE		alues for Assert	Comment Status D Time and Deassert Time a sert Threshold of 1000mV		
Proposed Response	Response Status W EPT IN PRINCIPLE.	0.		"fat puls If we are	e" (pulse durations) to reduce the A	for 350uS because the 10 on of 10 bits) will arrive at t Assert/Deassert times, we ge the thresholds.	he receiver in thi	is timeframe.
Cl 46 SC 46.3. Dove, Daniel	2.4a P 107 ProCurve N	L 20 etworking	# 333		e want to keep t	he 5uS timers, my recomn ge the Assert/Deassert thre		nalyze the amplitude
Comment Type T Figure 46-8a show	Comment Status D s wake time being 4 bit times lo	ing	LATE	Proposed R PROPC	esponse SED ACCEPT.	Response Status W		
SuggestedRemedy Insert squiggly "sou wake time is variat Proposed Response PROPOSED ACCI	Response Status W	figure to indicate t	hat the time duration of	25.4.11 The TP	.6 Changes to 1	ving stratments and modify 0.1.1.1 "Signal_Detect ass • 10.1.1.1 is applicable dur rx_lpi is asserted, Signal_	ertion threshold" ing the normal or	
Cl 46 SC 46.3. Dove, Daniel	1.5a P 105 ProCurve N	L 6 etworking	# 334	for any	valid peak to pea	ak signal, VSDA, of >400 r	nV for UTP, and	> 500 mV for STP.
SuggestedRemedy Insert squiggly "so wake time is variab		0	LATE	The TP Power I	PMD subclause dle mode, when	10.1.1.2 is applicable dur rx_lpi is deasserted, Signa eak to peak signal, VSDA	ing the normal op al_Detect shall be	peration. During the Low e deasserted per
Proposed Response PROPOSED ACCI	Response Status W			Dove, Danie Comment T Incorred		ProCurve N Comment Status D TXD[7:0]	etworking	LATE
				SuggestedF Change	Remedy from "0001" to '	'01"		
				Proposed R PROPC	esponse SED 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 48	SC 48.2.4.2	P 110	L 18	# 337
Dove, Daniel		ProCurve Networking		
Commen The v	51	Comment Status D row are transposed		LATE
00	dRemedy ace with "randomly	/ in one row of each colu	mn during I .	

Proposed Response Response Status W PROPOSED ACCEPT.