Responses

C/ 14	SC 14	P15	L 5	# 101	
Thaler. Pat		Broadcom			

Comment Type TR Comment Status A

Some text still implies that a type 10BASE-Te MAU is not a type 10BASE-T one, but it needs to be for backwards compatibility in places like autonegotiation. 10BASE-Te should be treated as a subtype of 10BASE-T.

SuggestedRemedy

In the title of Clause 14, change "and type 10BASE-Te" to "including type 10BASE-Te".

14.1.1 in the note say: "Support for both 10BASE-Te and non-10BASE-Te signal levels in a single device is not expected." Or you could use legacy 10BASE-T where you need to differentiate from 10BASE-Te.

14.1.1.3 - the first paragraph doesn't explicitly exclude 10BASE-Te. The paragraph needs language to exclude 10BASE-Te; either replace 10BASE-T with "10BASE-T except 10BASE-Te" or "legacy 10BASE-Te"

14.3, The additional sentence "This subclause also ..." is not needed since 10BASE-T includes 10BASE-Te when not otherwise specified.

14.3.1.2 the paragaph about insertion loss for a legacy 10BASE-T MAU needs to explicitly exclude 10BASE-Te.

This needs to be done for every time that there is a requirement that is different for 10BASE-Te. The paragraph near the beginning of 14.3.1.2 that contains the reference to Figure 14-7 is an example where it was done right.

Response Response Status W

ACCEPT IN PRINCIPLE.

In the title of Clause 14, change "and type 10BASE-Te" to "including type 10BASE-Te".

14.1.1 - Change note to read: "Support for both 10BASE-T and 10BASE-Te signal levels in a single device is not required".

14.1.1.3 - Change text on page 16, line 5 from: "The performance specifications of the 10BASE-T simplex ..." to: "The performance specifications of the 10BASE-T except 10BASE-Te simplex ..."

14.3 - Delete additional sentence "This subclause also defines the ."

14.3.1.2 Change page 17, line 8 from: "For a type 10BASE-T MAU, insertion ." to: "For a type 10BASE-T MAU that is not a type 10BASE-Te MAU, insertion ."

Change text on page 18, line 34 from:

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COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

"data sequences for a type 10BASE-T MAU." to: "data sequences for a type 10BASE-T MAU that is not a type 10BASE-Te MAU."

Change text on page 18, line 44 from:

". Figure 14-7 for 10BASE-T and ." to:

". Figure 14-5 for 10BASE-T except 10BASE-Te and ."

Change text on page 19, lines 12, 18 and 25 from: ". For 10BASE-T and ." to:

". For 10BASE-T except 10BASE-Te and ."

Change text on page 19, line 52 from: ". For a 10BASE-T MAU." to:

". For a 10BASE-T MAU that is not a 10BASE-Te MAU."

C/ 14	SC 14.10.3	P 21	L 12	# 97	
Thaler, Pat		Broadcom			

Comment Type ER Comment Status A

Since the decision was that 10BASE-T includes 10BASE-Te, it is unclear whether a maker of a 10BASE-Te MAU also checks the 10BASE-T box yes.

SuggestedRemedy

Add text to the 10BASE-T entry that excludes 10BASE-TE.

Response	Response Status	w

ACCEPT.

C/ 14 SC 14.10.3 Page 1 of 3 2/18/2010 2:16:09 AM # 1



Barnette, James

Comment Type TR Comment Status A

Branches from LPI_IDLE_D, LPI_K, RX_WAKE, and RX_WTF, are not sufficiently specified when multiple conditions occur simultaneously.

Vitesse Semiconducto

SuggestedRemedy

Branches from LPI_IDLE_D near line 13:

On the branch from LPI_IDLE_D to RX_LINK_FAIL, change the condition from "rx_ts_timer_done" to "signal_detect = OK * rx_ts_timer_done". On the branch from LPI_IDLE_D to off-page node F, change the condition from "xmit != DATA * SUDI(![/K28.5/])" to "signal_detect = OK * !rx_ts_timer_done * xmit != DATA * SUDI(![/K28.5/])". On the branch from LPI_IDLE_D to LPI_K, change the condition from "xmit = DATA * SUDI + SUDI([/K28.5/])" to "signal_detect = OK * !rx_ts_timer_done * (xmit = DATA * SUDI + SUDI([/K28.5/])".

Branches from LPI_K near line 19:

On the branches from LPI_K to off-page nodes D, F, and C as well as the branch back to LP_IDLE_D, insert the condition "signal_detect = OK * <cond>" where <cond> is replaced by the previously-stated condition.

Branches from RX_WAKE near line 32:

On the branch to RX_WTF, insert the condition "signal_detect = OK * !(code_sync_status = OK * SUDI([/K28.5/]*EVEN)) * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * ..." into the condition for this branch.

Similarly, in branches from RX_WTF near line 36:

On the branch to RX_LINK_FAIL, insert the condition "signal_detect = OK * $!(code_sync_status = OK * SUDI([/K28.5/]*EVEN)) * ..."$ into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * ..." into the condition for this branch.

Response Response Status W

ACCEPT IN PRINCIPLE.

Use changes as suggested for branches from LPI_IDLE_D and LPI_K. Use the following for the other two:

Branches from RX_WAKE near line 32:

On the branch to RX_WTF, insert the condition "signal_detect = OK * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * !rx_tw_timer_done * ..." into the condition for this branch.

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: Clause, Subclause, page, line

Similarly, in branches from RX_WTF near line 36:

On the branch to RX_LINK_FAIL, insert the condition "signal_detect = OK * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * !rx_wf_timer_done * ..." into the condition for this branch.

C/ 36	SC 36.2.5.2.2	P83	L 44	# 2
Barnette,	James	Vitesse Semi	iconducto	

Comment Type TR Comment Status A

When state RX_QUIET is to be left via transition (signal_detect = FAIL * rx_tq_timer_done) entering state RX_LINK_FAIL (via the "I" connector) signal "rx_quiet" is not set back to FALSE.

In case this condition (and transition) is ever met rx_quiet will never be set to FALSE again. A receiver would never be able to get data again since the receiver (e.g. a deserializer) would be powered down all the time - only a reset would help.

SuggestedRemedy

When entering state RX_LINK_FAIL signal "rx_quiet" must be reset (rx_quiet <= FALSE; this would be an additional assignment to the already existing assignment "rx_lpi_active <= FALSE").

Response Response Status W

ACCEPT.

C/ 36 SC 36.2.5.2.2 Page 2 of 3 2/18/2010 2:16:16 AM Responses

C/ 45 SC 45.2	.7.13a	P 128	L 25	# 99	C/ 55	SC 55.3.2.2	.9a	P189	L13	# 100
haler, Pat	E	Broadcom			Thaler, Pat		E	Broadcom		
omment Type TR	Comment St	tatus A			Comment 7	Type TR	Comment St	atus A		
through U1 of the	nts still aren't right. Bit U field. I.e. each bit in as agreed in the reso	n the register s	should map to th	e corresponding bit of			of terminology for EEE capability is r			but there are still a
the response to 19	93 in the first recircula	ation.								dle function is <not></not>
	o applies to 45.2.7.14	la which shoul	d use the same	mapping.	suppor low pov capabil	wer idle function	n. These should a	all refer to EE	E which is the n	ions where ther is no ame of the optional
uggestedRemedy					Suggested					
Change the mapp	ing of bits 3 through '	1 to U3 throug	h U1 respectivel	y in both tables.	00	,	t supported should	d bo "If EEE	is not supported	n
				emented - the register use 73 and only bits 0			nction" shoudl be		is not supported	
through 10 apply t	to Clause 28) with the U bits to be establishe	e unused value	es reserved. That	t allows the mapping	correct	. LPI is the sign				ver idle or LPI and is used. EEE is the
esponse	Response Sta	atus W			•	al capability.				
ACCEPT IN PRIN	CIPLE.				Response		Response Sta	atus W		
Ohanna 2:4 ta 112	4h				ACCEF	PT IN PRINCIP	LE.			
	through U1 to rectify in both tables: 45-157			j comment #193.			ot supported" shou			t supported".
Add a new paragr	aph after the current	one in 45.2.7.1	13a:						iity	
Bits 10:0 of register 7.60 map to bits U10 through U0 respectively of the unformatted next page following a EEE technology message code as defined in 28C.12. Bits 15:0 of register 7.60 map to bits U15 through U0 respectively of the unformatted next page following a EEE technology message code as defined in 73A.4. Devices using Clause 28 autonegotiation may ignore bits defined for Clause 73 autonegotiation.					Also make changes on page 179, 195, 196, 206.					
					C/ 74	SC 74.7.4.8		Р	L	# 102
					Thaler, Pat		E	Broadcom		
					Comment 7	Type TR	Comment St	atus A		
					The response to 384 on the first Working Group ballot has not been fully implemented. FEC does not have "frames", it has blocks					
					Suggested	Remedy				
					All inst	ances of "frame	e" in Claause 74 s	hould be rep	laced with "block	<".
					Response		Response Sta	atus W		
					ACCEF	PT.		••		
					Change	e "frame" to "blo	ock" at the followi	ng locations:		

Page 233, line 11, 15 and 19.

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: Clause, Subclause, page, line

C/ 74 SC 74.7.4.8