Responses

IEEE P802.3az D3.2 Energy Efficient Ethernet comments

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C/ 45 SC 45	5.2.1.76a.6	P 122	L 4	# 1	CI 55	SC 55.4.5.1	P 229	L14	# 2
Booth, Brad Applied Micro (AMCC)					Booth, Brad Applied Micro (AMCC)				
Comment Type TR Comment Status R The fast retrain enable bit has the ability to override a negotiated state of operation. Changing this bit after a negotiated operating mode should not cause that mode to fail. In review of these bits and those in the autonegotiation register set, there are some modifications that should help prevent the above condition from occurring.					Comment Type ER Comment Status R Figures 55-25 and 55-26 have the following note: NOTE- For PHYs which do not support the fast retrain capability, the variable fast_retrain_flag is set to FALSE The note does not relate to the figure, but rather to the variable.				
SuggestedRemedy Delete bit 1.147.3 from Table 45-53a. Change bit 1.147.0 in Table 45-53a to be Fast retrain enabled (note the "d" at the end). Change bit from R/W to be RO. Replace all the paragraphs and notes in 45.2.1.76a.6 to read: When read as a one, bit 1.147.0 indicates that during the most recent autonegotiation fast retrain was selected. When read as a zero, bit 1.147.3 indicates that fast retrain was not selected. See 45.2.7.10.5a. On page 135 in Table 45-148 and in subheading 45.2.7.10.5a, change "Fast retrain ability" to be "Fast retrain advertised ability". Add sentence at the end of the paragraph in 45.2.7.10.5a, that reads: See also 45.2.1.76a.6.					SuggestedRemedy Move the note to be part of the fast_retrain_flag variable description. Response Response Status REJECT. This note is consistent with the notes identifying optional capabilities in other figures in this clause. In this case, the note referred to in the comment is notifying the reader that the fast retrain capability is optional.				
Response Response Status U REJECT. The intent of the fast retrain enable bit is to override the negotiated fast retrain operation without forcing a renegotiation (which would also force a link drop). There are various scenarios where this may be considered useful. In particular, disabling the fast retrain				The fast_retrain_flag variable description clearly indicates that FALSE is the default when the capability is not supported. Also note, this text was present in the same relative location in D3.0 and D3.1.					
mechanism in th (whereas forcing suffer a disturba	his way may have no	effect if the link lways disturb th lk partner has e n fast retrain wa	c does not suffe e link). In the can nabled fast retra as not negotiate	r a disturbance ase where the link does ain, the behavior is					

delay for the link partner that is attempting fast retrain). This was considered preferable to

The end stations still have the option of forcing a renegotiation if that is preferable to using

purposefully dropping the link to renegotiate.

the fast retrain enable bit.

CI 55 SC 55.4.5.1