## IEEE P802.3bq D3.1 25G/40GBASE-T Ethernet 2nd Sponsor recirculation ballot comments

C/ 113 SC 113.3.2.3.3 P 117 L 52 # [r02-1	C/ 113 SC 113.3.2.3.3 P 118 L 7 # r02-2					
RAN, ADEE Intel Corporation	RAN, ADEE Intel Corporation					
Comment Type T Comment Status A Invalid Blocks "Invalid blocks are replaced by error"	Comment Type         T         Comment Status         A         Invalid Blocks           "The block contains the payload of an invalid received PHY frame"         Invalid Blocks         Invalid Blocks					
"Error" is defined in 113.3.2.2.14 (in the transmit function) as a character. An invalid block should be replaced by 8 error characters.	The payload spans multiple blocks, so a block can't contain the payload. <i>SuggestedRemedy</i>					
Also, it is not obvious that this definition applies to 113.3.2.3.3 (receive function) - it appears in a different area, 12 pages before this subclause	Change item e from "The block contains the payload of an invalid received PHY frame or the first 64B/65B block following an invalid received PHY frame"					
Figure 113-20 already specifies that error blocks are decoded as EBLOCK_R, so it may be easiest to use that; invalid block should be assigned R_BLOCK_TYPE value E. SuggestedRemedy	to "The block is part of the payload of an invalid received PHY frame, or is the first 64B/65B					
Change "Invalid blocks are replaced by error"	block following an invalid received PHY frame". Response Response Status C ACCEPT IN PRINCIPLE.					
to "R_BLOCK_TYPE of invalid blocks is set to E"	Change "The block contains the payload of an invalid received PHY frame "					
or "Invalid blocks are decoded as EBLOCK_R as shown by the PCS Receive state diagram (Figure 113-20)."	to "The block contains information from the payload of an invalid received PHY frame"					
Response Response Status C ACCEPT IN PRINCIPLE.						
Delete: "Invalid blocks are replaced by error."						

Insert at end of subclause (P117 L11): "R\_BLOCK\_TYPE of an invalid block is set to E."

Comment ID r02-2

IEEE P802.3bq D3.1 25G/40GBASE-T Ethernet 2nd Sponsor recirculation ballot comments

113 SC 113.3.2.3.3 P 117 L 52	# r02-3	C/ 113	SC 113.3.2	.3.3	P 12	L <b>2</b>	# r02-4	
AN, ADEE Intel Corporation		RAN, ADEE			Intel Corpora	tion		
omment Type E Comment Status R	Invalid Blocks	Comment Ty	rpe T	Commen	t Status A		Invalid Block	
A compliant transmitter will never send blocks matching any of items a-d, si T_BLOCK_TYPE calculation would return E which would result in EBLOCK				ncountered by other way arou		*GMII characters	s are decoded from the	
With FEC protecting all bits, it should be extremely rare that data corruption causes blocks to match any of these criteria without also causing parity check failure.			Items b and c seem be written as if they belong in a transmitter. The receiver test for control characters is much more detailed, as shown in the definition of R_BLOCK_TYPE. R_BLOCK_TYPE also covers item a.					
Therefore, the prevalent (if not sole) reason for marking blocks as invalid in going to be FEC parity check failure (covered by item e and the last paragra	The criteria in items a-d can be replaced by the simple condition "R_BLOCK_TYPE of the block is E".							
Restructuring this subclause may improve clarity. SuggestedRemedy			SuggestedRemedy Delete list item a-d.					
	4	Response		Response	Status C			
Move the sentence "Invalid blocks are replaced by error" (or its replacement, subject to another comment) to the end of this subclause.			ACCEPT IN PRINCIPLE.					
esponse Response Status C REJECT. The text is correct, as is. While it may (or may not) be extremely rare, data corruption can occur, esp decoding algorithms for LDPC are generally suboptimal, and subject to sign between implementations.		in Figure Rational List item (presum List item	et of eight 250 113–9, for 2 e: s a, b, and c ably rare) da d is related t formats only	5GBASE-T, o are unrelated a error which o the move its	r Figure 113–10 to the move and might be undete self, as the conv	for 40GBASE-T d can occur as th acted by other me ersion from 25GI	e result of a	
		R_BLOCK_TYPE being E is the result of an invalid block, not an invalid block type in itself						

Comment ID r02-4

IEEE P802.3bq D3.1 25G/40GBASE-T Ethernet 2nd Sponsor recirculation ballot comments

C/ 113 SC 113.5.4.2 RAN, ADEE	P <b>13</b> Intel Corporati	L <b>26</b> on	# <u>r02-5</u>	C/         45         SC         45.2.3.6.1         P 42         L 32         # [r02-8]           Anslow, Peter         Ciena Corporation         Ciena Corporation         Ciena Corporation         Ciena Corporation
Comment Type <b>T</b> Also applies to 113.5.3.	Comment Status <b>A</b> 5.		EZ	Comment Type E Comment Status A The text "The PCS type abilities of the PCS are advertised in bits 3.8.9 and 3.8.6:0." is correct as 802.3by uses bit 3.8.7.
The text in these subcla r01-9.	uses hasn't changed, but sh	ould have chan	iged based on comment	SuggestedRemedy Change to "The PCS type abilities of the PCS are advertised in bits 3.8.9 and 3.8.7:0."
Symbol rate units are Ba	aud, not Hz.			Response Response Status C
SuggestedRemedy Change "MHz" to "MBd"	' in both places			ACCEPT.
Response ACCEPT.	Response Status <b>C</b>			C/         113         SC         113.3.6.2.4         P 125         L 52         # [r02-9]           Mcclellan, Brett         Marvell Semiconducto
Hajduczenia, Marek Comment Type E Extra >>"<< in "ISO/IEC SuggestedRemedy	Bright House I Comment Status A CTR 11801-9905 ""Guideline			Figure 82-4 is the wrong reference. Rather than point to Figure 113-10 ( the correct figure 1 think this reference is unnecessary and can be deleted. The same reference error appears on page 126 line 39. SuggestedRemedy
	1801-9905 ""Guidelines" to "I	SO/IEC TR 11	801-9905 "Guidelines"	Page 125 line 52 delete ", as shown in Figure 82-4" page 126 line 39 delete "as shown in Figure 82-4"
Response ACCEPT. Duplicate by comment r	Response Status <b>C</b> 02-7			Response Response Status C ACCEPT.
Cl 113 SC 113.7.1 Maguire, Valerie	P <b>175</b> The Siemon C	L <b>36</b>	# r02-7	C/         113         SC         113.3.2.2.6         P 103         L 28         #         r02-10           Mcclellan, Brett         Marvell Semiconducto         Marvel
<i>Comment Type</i> <b>E</b> Extra quote marks.	Comment Status A	ompany	EZ	Comment Type E Comment Status A Table 113-1 starts on page 102 and continues on page 103 at line 28, however Figure 10 appears between the split. This was introduced in draft 3.1.
SuggestedRemedy Replace, ""Guidelines w	vith "Guidelines			SuggestedRemedy Beat Framemaker into submission and move Figure 113-10 out of the split table.
Response ACCEPT. Duplicate of comment r0	Response Status <b>C</b> 02-6			Response Response Status C ACCEPT.

Comment ID r02-10