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| REVISION REQUEST |
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DATE: June 23, 2025
NAME: Natalie Wienckowski
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REQUESTED REVISION:
  STANDARD: 802.3-2022
  CLAUSE NUMBER: CLAUSE NUMBER: 97, 149, & 165
  CLAUSE TITLE: Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer, and baseband medium, type 1000BASE-T1,

PROPOSED REVISION TEXT: 97.1.2, 2nd paragraph, 4th sentence

Change: To maintain a bit error ratio (BER) of less than or equal to 10–10, the 1000BASE-T1 PHY adds 396 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 45 80B/81B blocks (containing 450 octets of GMII data).

To: A 1000BASE-T1 PHY adds 396 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 45 80B/81B blocks (containing 450 octets of GMII data).

PROPOSED REVISION TEXT: 149.1.3, 1st paragraph, 6th sentence

Change: To maintain a bit error ratio (BER) of less than or equal to 10–12, the 2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1 PHYs add 340 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 50 64B/65B blocks.

To: The 2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1 PHYs add 340 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 50 64B/65B blocks.

PROPOSED REVISION TEXT: 165.1.3, 1st paragraph, 6th sentence

Change: To maintain a frame loss ratio (FLR) equivalent to a bit error ratio (BER) of less than or equal to 10–12, a 25GBASE-T1 PHY adds 900 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 130 64B/65B blocks.

To: A 25GBASE-T1 PHY adds 900 bits of Reed-Solomon forward error correction(RS-FEC) parity to each group of 130 64B/65B blocks.

RATIONALE FOR REVISION:

Description of the purpose of the additional RS-FEC is inconsistent in parallel clauses, is unnecessary for the overview, and may lead the reader to incorrect conclusions that the RS-FEC is primarily for traditional coding gain in gaussian (or other stationary) noise environments, when it is designed for automotive EMC and impulse noise. Suggest that the overview stick to explaining the operation and avoid potentially oversimplifying the purpose of elements in the design.

IMPACT ON EXISTING NETWORKS: None

Please attach supporting material, if any		
Submit to:- David Law, Chair IEEE 802.3		
and copy:- Adam Healey, Vice-Chair IEEE 802.3		
At:- E-Mail: stds-802-3-maint-req@ieee.org		
	For official use	
	REV REQ NUMBER: 1499	
	DATE RECEIVED: 29 May, 2026	
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	ACCEPTED/DENIED	
	BALLOT REQ'D YES/NO	
	COMMENTS:	
For information about this Revision Request see -		
http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1499		