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|                          REVISION REQUEST                            |
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DATE: 04 October 2024
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REQUESTED REVISION:
  STANDARD: 802.3-2022
  CLAUSE NUMBER: 149.3.9.4.5
  CLAUSE TITLE: Functions
PROPOSED REVISION TEXT:
Replace

"rs_correct (16 OAM symbols)
      This function outputs the 14 corrected data symbols as defined in
      149.3.9.2.13 and sets/clears the rs_check variable when at least
      one of the 16 symbols of the OAM frame is embedded in a LPI
refresh.
      Otherwise, this function returns the 14 data symbols unmodified and
      sets rs_check to GOOD if none of the 16 RS(360, 326) frames are
      uncorrectable."

with

"rs_correct
      This function takes the 16 OAM symbols as its argument and returns
      the 14 corrected OAM data symbols as defined in 149.3.9.2.13 when
      at least one of the 16 symbols of the OAM frame is embedded in an
      LPI refresh and sets rs_check to GOOD if none of the 16
      RS(360, 326) frames and 14 RS(16, 14) symbols are uncorrectable.
      Otherwise, this function returns the 14 OAM data symbols unmodified
      and sets rs_check to GOOD if none of the 16 RS(360, 326) frames are
      uncorrectable.
      Otherwise this function sets rs_check to BAD.

            {rs_check, rx_oam<13:0>} = rs_correct(rx_oam<15:0>)"
            ^ this line in italics ^

Replace

"rx_oam<0 to 13> <= rs_correct(rx_oam<0 to 15>"

in the CHECK_READ state of Figure 149-24, with:

"{rs_check, rx_oam<13:0>} <= rs_correct(rx_oam<15:0>)"

RATIONALE FOR REVISION:
This change will make it clear exactly what the input and output
arguments are. Additionally, most other bit references use the colon
(:) operator and list bits in MSB:LSB order, but this one uses " to "
and lists the bits in LSB to MSB order, this change would make it
consistent with other bit references. Changing the statement in the
state diagram would not change the functionality but would make it
clear where rs_check is coming from.
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IMPACT ON EXISTING NETWORKS:
None.


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|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: 1464                    |             |
|             |  DATE RECEIVED: 04 October 2024          |             |
|             |  EDITORIAL/TECHNICAL                     |             |
|             |  ACCEPTED/DENIED                         |             |
|             |  BALLOT REQ'D    YES/NO                  |             |
|             |  COMMENTS:                               |             |
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| For information about this Revision Request see -                    |
|http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1464 |
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