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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: Figure 149-24
   CLAUSE TITLE: Receive state diagram
PROPOSED REVISION TEXT:
Add

"rx_boundary <= FALSE"

to the beginning of the CHECK_READ state in Figure 149-24.

RATIONALE FOR REVISION:
The rx_boundary TRUE/FALSE conditions in 149.3.9.4.3 are not clear in
regards to when the variable is set to FALSE after being set to TRUE.
Adding this to the state diagram would make it clear that rx_boundary
is set FALSE after being acted upon in the state diagram. Without this
clarification the state diagram could rapidly cycle through the
LOAD_SYMBOL state potentially filling every rx_oam<rx_cnt> with the
same rx_oam_field<9:0>. While it is unlikely any implementation does
this the clarification would be helpful.

IMPACT ON EXISTING NETWORKS:
This change will impact any 2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1 PHY
implementations that keeps rx_boundary = TRUE beyond the time the state
diagram acts upon it. Any implementation that kept rx_boundary = TRUE
in this way would not have a functional OAM in any practical way.


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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                    |
|                                                                       |
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|              | REV REQ NUMBER: 1460                     |            |
|              | 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 -                     |
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