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                     REVISION REQUEST
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    +----
    DATE: 04 October 2024
5
    NAME: Charity Reed
6
    COMPANY/AFFILIATION: UNH-IOL
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9
   REQUESTED REVISION:
10
     STANDARD: 802.3-2022
11
     CLAUSE NUMBER: Figure 149-25
12
     CLAUSE TITLE: Transmit state diagram
13
   PROPOSED REVISION TEXT:
14
15
16
    "tx boundary <= FALSE"
17
18
    to the beginning of the CHECK ACK and TRANSMIT SYMBOL states in Figure
19
    149-25.
20
21
   RATIONALE FOR REVISION:
22
    The tx boundary TRUE/FALSE conditions in 149.3.9.4.3 are not clear in
23
    regards to when the variable is set to FALSE after being set to TRUE.
24
    Adding this to the state diagram would make it clear that tx boundary
    is set FALSE after being acted upon in the state diagram. Without this
25
26
    clarification the state diagram could rapidly cycle through the
27
    TRANSMIT SYMBOL state potentially setting each tx oam field<9:0> with
28
    tx oam<0><9:0> overwriting tx oam field prior to being embedded into
    the RS-FEC frame. While it is unlikely any implementation does this the
29
30
    clarification would be helpful.
31
32
    IMPACT ON EXISTING NETWORKS:
   This change will impact any 2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1 PHY
33
    implementations that keeps tx boundary = TRUE beyond the time the state
34
35
    diagram acts upon it. Any implementation that kept tx boundary = TRUE
36
    in this way would not have a functional OAM in any practical way.
37
    +-----+
38
39
   |Please attach supporting material, if any
40
    |Submit to:- David Law, Chair IEEE 802.3
41
    |and copy:- Adam Healey, Vice-Chair IEEE 802.3
42
    43
    |At:- E-Mail: stds-802-3-maint-req@ieee.org
44
45
                +----- For official use -----+
46
               | REV REQ NUMBER: 1461
47
               | DATE RECEIVED: 04 October 2024
48
               | EDITORIAL/TECHNICAL
49
               | ACCEPTED/DENIED
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               | BALLOT REQ'D YES/NO
               | COMMENTS:
51
52
53
   | For information about this Revision Request see -
54 | http://www.ieee802.org/3/maint/requests/revision history.html#REQ1461 |
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