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4  DATE: 04 October 2024
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9  REQUESTED REVISION:
10     STANDARD: 802.3-2022
11     CLAUSE NUMBER: 149.3.9.2.1
12     CLAUSE TITLE: MultiGBASE-T1 OAM frame structure
13  PROPOSED REVISION TEXT:
14  Replace
15
16  "Bit 0 of each OAM symbol is the first bit transmitted in the 10-bit
17  OAM field. Symbol 0 is the first symbol transmitted in each OAM frame."
18
19  with
20
21  "Bit 0 of each OAM symbol shall be the first bit transmitted in the
22  10-bit OAM field. Symbol 0 shall be the first symbol transmitted in
23  each OAM frame."
24
25  In the PICS Replace
26
27  "OAM2 | When the PCS frame is operating in interleaved mode of 2x or
28  4x, the first symbol (OAM<0>) shall be inserted in the first RS frame
29  in the superframe so that the full OAM frame can be packed into 8
30  superframes in the 2x interleaved mode, and into 4 superframes in the
31  4x interleaved mode. | 149.3.9.2.1 | | OAM:M | Yes[] NA[]"
32
33  with
34
35  "OAM2 | OAM bit/frame transmission order | 149.3.9.2.1 | Transmit the
36  first symbol (OAM<0>) first. Transmit bit 0 of each OAM symbol first. |
37  OAM:M | Yes[] NA[]"
38
39
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41  RATIONALE FOR REVISION:
42  There is no shall for the bit order of OAM and this requirement is
43  not covered in the blanket shall of the state diagrams. Symbol 0 has a
44  shall for being sent first for L = 2 and L = 4 but not for when L = 1,
45  this change would fix that.
46
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49  IMPACT ON EXISTING NETWORKS:
50  This change will impact any 2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1 PHY
51  implementations that do not transmit bit 0 of the OAM symbol and/or
52  symbol 0 of the OAM frame first.
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2 | Please attach supporting material, if any |  
3 | Submit to:- David Law, Chair IEEE 802.3 |  
4 | and copy:- Adam Healey, Vice-Chair IEEE 802.3 |  
5 | |  
6 | At:- E-Mail: stds-802-3-maint-req@ieee.org |  
7 | |  
8 | +----- For official use -----+ |  
9 | | REV REQ NUMBER: 1451 | |  
10 | | DATE RECEIVED: 04 October 2024 | |  
11 | | EDITORIAL/TECHNICAL | |  
12 | | ACCEPTED/DENIED | |  
13 | | BALLOT REQ'D YES/NO | |  
14 | | COMMENTS: | |  
15 +-----+  
16 | For information about this Revision Request see - |  
17 | [http://www.ieee802.org/3/maint/requests/revision\\_history.html#REQ1451](http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1451) |  
18 +-----+  
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