

```

1  +-----+
2  |                                     |
3  |                                     |
4  |                                     |
5  | DATE: 20 September 2023          |
6  | NAME: David Law                   |
7  | AFFILIATION: Hewlett Packard Enterprise |
8  | E-MAIL: dlaw@hpe.com              |
9  |                                     |
10 | REQUESTED REVISION:                |
11 |   STANDARD: IEEE Std 802.3-2022    |
12 |   CLAUSE NUMBER: 36.2.4           |
13 |   CLAUSE TITLE: 8B/10B transmission code |
14 | PROPOSED REVISION TEXT:            |
15 |                                     |
16 | Change the Figure 36-3 title to 'PCS transmit and receive bit order'. |
17 |                                     |
18 | RATIONALE FOR REVISION:            |
19 |                                     |
20 | I don't believe the title is correct as it isn't a reference diagram of |
21 | the entire PCS. Instead, I believe it only illustrates the PCS transmit |
22 | and receive bit order since there is a reversal of the bit order between |
23 | both the GMII and management registers and the PMA service interface. |
24 |                                     |
25 | I believe this is supported by the three references to Figure 36-3. The |
26 | first is in subclause 36.2.4 '8B/10B transmission code' which says 'The |
27 | relationship of code-group bit positions to PMA and other PCS constructs |
28 | is illustrated in Figure 36-3.'. The second in subclause 36.2.4.1 |
29 | 'Notation conventions' which says '8B/10B code-group bit assignments are |
30 | illustrated in Figure 36-3.'. The third in subclause 36.2.4.2 |
31 | 'Transmission order' which says 'Code-group bit transmission order is |
32 | illustrated in Figure 36-3.'. |
33 |                                     |
34 | IMPACT ON EXISTING NETWORKS:        |
35 |                                     |
36 | None, this is just a clarification of the figure title. |
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: 1418 |
47 | | | DATE RECEIVED: 20 September 2023 |
48 | | | EDITORIAL/TECHNICAL |
49 | | | ACCEPTED/DENIED |
50 | | | BALLOT REQ'D YES/NO |
51 | | | COMMENTS: |
52 | | +-----+ |
53 | | For information about this Revision Request see - |
54 | | http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1418 |
55 | | +-----+ |

```