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2 | 8802-3/802.3 REVISION REQUEST |
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4 DATE: 9 September 2016
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9 REQUESTED REVISION:
10 STANDARD: IEEE Std 802.3-2015 as amended
11 CLAUSE NUMBER: 78
12 CLAUSE TITLE: Energy-Efficient Ethernet
13

14 PROPOSED REVISION TEXT:
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16 As part of the next revision:

- 17
- 18 1. Pick and consistently use an appropriate order for Clause 78 table
- 19 rows. If ordering of terms that include a speed is to be preserved,
- 20 intermixing of terms beginning with alpha characters with terms
- 21 beginning with a numeric character exists. So, also consider how to do
- 22 these alpha terms. One option to consider is to sort rows in IEEE 802.3
- 23 enhanced IEEE character-by-character sort order
- 24 (.0123456789abcdefghijklmnopqrstuvwxy).
- 25
- 26 2. Sort rows in Table 78-1, Table 78-2 and Table 78-4 according to the
- 27 decision for item #1. (With current editing instructions in amendments,
- 28 yet to be published at writing the revision request, it is impossible
- 29 to provide exact instructions because of ambiguity in approved draft
- 30 editing instructions.)

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33 RATIONALE FOR REVISION:

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35 Order of entries in Clause 78 tables has become muddled over the years.
36 When amendments are merged into IEEE Std 802.3-2015, this should become
37 apparent, but lest fixing this is forgotten during the next revision,
38 this revision request will serve as a reminder to examine row order
39 during the next revision.
40

41 The order of 1000BASE entries in Tables 78-1, 78-2 and 79-4 in the
42 document IEEE Std 802.3-2015 is not consistent. 1000BASE-KX comes before
43 1000BASE-T in Tables 78-1 and Table 78-2 but comes after in Table 78-4.
44 Having done this, the order issue ripples through multiple amendments.
45

46 Approved draft P802.3bp/D3.4, Amendment 4 did all inserts to these three
47 tables "between 1000BASE-T and XGSX". For Table 78-4 though, this is
48 ambiguous because 1000BASE-KX is also between 1000BASE-T and XGSX -- the
49 instruction allowing the insert to be either before or after 1000BASE-KX.

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2 P802.3bz/D3.3, Amendment 7 (on the RevCom agenda at writing of this
3 request) specifies different insertion points for each of the three
4 tables. Insertion of 2.5GBASE-T and 5GBASE-T is after 1000BASE-T1 for
5 Table 78-1 (does not disrupt speed groupings of table rows). Insert is
6 after 1000BASE-T for Table 78-2, which as submitted to RevCom puts
7 2.5GBASE-T and 5GBASE-T before 1000BASE-T1 (inserted by 802.3bp). For
8 Table 78-4 the insert is after 1000BASE-KX, but this is imprecise
9 because of the ambiguity with the 802.3bp editing instruction; the
10 insert therefore may or may not be between 1000BASE entries.
11 (If 1000BASE-T1 is before 1000BASE-KX speed grouping is preserved, if
12 1000BASE-T1 is after 1000BASE-KX, then again 2.5GBASE-T and 5GBASE-T
13 are in the midst of 1000BASE table rows).

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15 IMPACT ON EXISTING NETWORKS:

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17 None.

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20 | Please attach supporting material, if any |
21 | Submit to:- David Law, Chair IEEE 802.3 |
22 | and copy:- Adam Healey, Vice-Chair IEEE 802.3 |
23 | |
24 | At:- E-Mail: stds-802-3-maint-req@ieee.org |
25 | |
26 | +----- For official 802.3 use -----+ |
27 | | REV REQ NUMBER: 1298 | |
28 | | DATE RECEIVED: 9th September, 2016 | |
29 | | EDITORIAL/TECHNICAL | |
30 | | ACCEPTED/DENIED | |
31 | | BALLOT REQ'D YES/NO | |
32 | | COMMENTS: | |
33 +-----+
34 | For information about this Revision Request see - |
35 | http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1298 |
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