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|                        8802-3/802.3 REVISION REQUEST                 |
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DATE: November 9, 2020
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REQUESTED REVISION:
   STANDARD: 802.3
   CLAUSE NUMBER: 120D.3.2.2, 120E.3.3.2.1
   CLAUSE TITLE: Receiver jitter tolerance

PROPOSED REVISION TEXT:
In Table 120D-7, insert an additional column between the columns for
"Case A" and "Case B", with symbol error ratio 10^{-4}, Jitter frequency
0.4 MHz, and Jitter amplitude (pk-pk) 0.5 UI. Re-label the headings to
"Case A" through "Case F". Change the reference to "Case E" in
120D.3.2.2 item c accordingly.

Apply a similar change in Table 120E-6.

RATIONALE FOR REVISION:
The tables include receiver jitter tolerance test cases for 50 Gb/s per
lane AUIs, which are also used for 50GBASE-KR and 50GBASE-CR PHYs and
their multi-lane versions. The low frequency test cases are at 40 kHz and
1.333 MHz, but there is a wide range of frequencies in between with no
jitter tolerance requirements. This range includes typical frequencies of
switching power supplies, which are a significant source of jitter in
some implementations. Compliant transmitters can thus have jitter in this
spectrum that receivers are not required to tolerate. This has been
identified as a source of interoperability issues.

The addition of another frequency will create two frequency points per
decade which would improve the coverage of allowed transmitter jitter
spectrum in receiver jitter tolerance tests and provide better
interoperability between compliant devices.

A similar change has been accepted and applied for all 100 Gb/s
interfaces defined in P802.3ck, following comments 146 and 11033 against
D1.2. Prior to the change, jitter tolerance requirements referred to
Table 120D-7.

IMPACT ON EXISTING NETWORKS:
None; new devices will have additional requirements.

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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              |
|                                                                  |
|              +------- For official 802.3 use -----------+        |
|              | REV REQ NUMBER: 1385                     |        |
|              | DATE RECEIVED: 9 December 2020           |        |
|              | EDITORIAL/TECHNICAL                      |        |
|              | ACCEPTED/DENIED                          |        |
|              | BALLOT REQ'D    YES/NO                   |        |
|              | COMMENTS:                                |        |
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| For information about this Revision Request see -                |
|http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1385 |
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