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2 | REVISION REQUEST |
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4 DATE: 2023-10-10
5 NAME: Bob Noseworthy
6 COMPANY/AFFILIATION: UNH-IOL
7 E-MAIL: ren@iol.unh.edu
8
9 REQUESTED REVISION:
10 STANDARD: IEEE 802.3
11 CLAUSE NUMBER: 97.4.2.4.10
12 CLAUSE TITLE: Start-up sequence
13 PROPOSED REVISION TEXT:
14
15 Add: with the optional EEE capability enabled
16
17 Change 8th paragraph, last 2 sentences
18 From:
19 The SLAVE shall align its transmit 81B-RS frame to within +0/-1 partial
20 PHY frames of the MASTER as seen at the SLAVE MDI. The SLAVE InfoField
21 partial PHY frame Count shall match the MASTER InfoField partial PHY
22 frame Count for the aligned frame.
23
24 To:
25 A SLAVE with the optional EEE capability enabled shall align its transmit
26 81B-RS frame to within +0/-1 partial PHY frames of the MASTER as seen at
27 the SLAVE MDI. The SLAVE InfoField partial PHY frame Count shall match
28 the MASTER InfoField partial PHY frame Count for the aligned frame.
29
30 Update conditional requirements for PICS items PMF29 and PMF30 to reflect
31 that they apply only if EEE is supported and enabled.
32
33 RATIONALE FOR REVISION:
34
35 These requirements apply only to devices utilizing the optional
36 EEE capability.
37
38 The two requirements cited above (PMF29 and PMF30) pertain to PHY Frame
39 alignment and matching PFC24 values between Master and Slave.
40 Refer to 97.3.5.1 LPI Synchronization, which relies on the PFC24 counter
41 alignment to determine the quiet/refresh (Q/R) cycle boundaries.
42 Alignment in time (PMF29) and count (PMF30) is required for proper EEE
43 operation. In the absence of EEE, these requirements serve no purpose
44 and should not be considered a mandatory feature for non-EEE-capable
45 devices.
46
47
48 Note, this text has been previously reviewed by additional parties who
49 have been encouraged to participate directly in the IEEE 802 Maintenance
50 meetings and process.
51
52 IMPACT ON EXISTING NETWORKS:
53
54 None. The changes described clarify requirements for EEE capable
55 devices.
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57

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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: 1422
10 | | DATE RECEIVED: 11 October 2023
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#REQ1422
18 +-----+
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