REVISION REQUEST

DATE: 2023-10-10
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REQUESTED REVISION:

STANDARD: IEEE 802.3
CLAUSE NUMBER: 97.4.2.4.10
CLAUSE TITLE: Start-up sequence

PROPOSED REVISION TEXT:

Add: with the optional EEE capability enabled

Change 8th paragraph, last 2 sentences

From:
The SLAVE shall align its transmit 81B-RS frame to within +0/-1 partial PHY frames of the MASTER as seen at the SLAVE MDI. The SLAVE InfoField partial PHY frame Count shall match the MASTER InfoField partial PHY frame Count for the aligned frame.

To:
A SLAVE with the optional EEE capability enabled shall align its transmit 81B-RS frame to within +0/-1 partial PHY frames of the MASTER as seen at the SLAVE MDI. The SLAVE InfoField partial PHY frame Count shall match the MASTER InfoField partial PHY frame Count for the aligned frame.

Update conditional requirements for PICS items PMF29 and PMF30 to reflect that they apply only if EEE is supported and enabled.

RATIONALE FOR REVISION:

These requirements apply only to devices utilizing the optional EEE capability.

The two requirements cited above (PMF29 and PMF30) pertain to PHY Frame alignment and matching PFC24 values between Master and Slave. Refer to 97.3.5.1 LPI Synchronization, which relies on the PFC24 counter alignment to determine the quiet/refresh (Q/R) cycle boundaries. Alignment in time (PMF29) and count (PMF30) is required for proper EEE operation. In the absence of EEE, these requirements serve no purpose and should not be considered a mandatory feature for non-EEE-capable devices.

Note, this text has been previously reviewed by additional parties who have been encouraged to participate directly in the IEEE 802 Maintenance meetings and process.

IMPACT ON EXISTING NETWORKS:

None. The changes described clarify requirements for EEE capable devices.
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

REV REQ NUMBER: 1422

DATE RECEIVED: 11 October 2023

EDITORIAL/TECHNICAL

ACCEPTED/DENIED

BALLOT REQ'D YES/NO

COMMENTS:

For information about this Revision Request see:

http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1422