802.3bq Editors PHY issues to Close

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IEEE 802.3bq 40GBASE-T Task Force – Feb 19 2015 PHY ad hoc meeting

Status

- Draft 1.2 should be close to WG ballot
- Technical changes need to be FEW
- All technical requirements need to be filled in with accepted text
- Assumptions:
 - Editor's notes indicating something may require a close look are OK
 - Editor's notes suggesting ongoing technical work possibly producing a new technical requirement or option are not OK
 - TBDs next to technical requirements are undesired, explanatory notes may be used.
 - Informative text may have gaps in it as long as its clear the requirements are complete.

Summary of known issues (1)

- Table 80-3 Maximum pause quanta needs number
 - Propose 50 pause quanta = 25600 BT/512 BT/quanta
- Whether FR should be made a mandatory capability (which can be disabled by register), remain optional, or be deleted (various places in the text)
 - A partial hole (only in 113.1), flagged by Ed Note, propose remain optional
- PBO level at which startup begins (see Ed note at 113.4.2.5.14)
 - Not a hole, flagged by Editor's note in 113.4.2.5.14, propose keep at 8 dB
 - (DEAL WITH IN FIRST WG BALLOT CYCLE DELETE NOTE)

Summary of known issues (2)

- Whether we should continue to support 8 levels of PBO up to 14 dB of PBO (maximum required to select is 6dB)
 - Not a hole, not flagged, propose keep at 14 dB
 - (DEAL WITH IN FIRST WG BALLOT CYCLE IF NECC.)
- Whether the transmitter linearity specification is needs
 reformulating
 - Not a hole, flagged by Ed note in 113.5.3.2, equation 113-9, no proposal but what is there is probably wrong (KEEP EDITOR'S NOTE)
- The lowest frequency we care about cabling delay
 - Not a hole, flagged by Ed note at 113.5.4.6.10 & 113.7.2.5, propose keep as is – (REMOVE EDITOR'S NOTE)

Summary of known issues (3)

- Fast wake support required for 40G PHYs that support EEE
 - Not a hole, but an error, not flagged, discuss options
 - A) Add edit to clause 78 exempting BASE-T from the requirement
 - B) Add register and autoneg bits for EEE fast wake, and equate all EEE references to EEE deep sleep (which they are) (one line of text).
 - (IMPLEMENT OPTION A, AND ASK SYSTEM VENDORS TO LOOK INTO WHETHER THIS IS OK)

Summary of known issues (4)

• Anything Else?