Some text still implies that a type 10BASE-Te MAU is not a type 10BASE-T one, but it needs to be for backwards compatibility in places like autonegotiation. 10BASE-Te should be treated as a subtype of 10BASE-T.

Suggested Remedy

In the title of Clause 14, change "and type 10BASE-Te" to "including type 10BASE-Te".

14.1.1 in the note say: "Support for both 10BASE-Te and non-10BASE-Te signal levels in a single device is not expected." Or you could use legacy 10BASE-T where you need to differentiate from 10BASE-Te.

14.1.1.3 - the first paragraph doesn't explicitly exclude 10BASE-Te. The paragraph needs language to exclude 10BASE-Te; either replace 10BASE-T with *10BASE-T except 10BASE-Te* or "legacy 10BASE-Te".

14.3, The additional sentence "This subclause also ..." is not needed since 10BASE-T includes 10BASE-Te when not otherwise specified.

14.3.1.2 the paragraph about insertion loss for a legacy 10BASE-T MAU needs to explicitly exclude 10BASE-Te.

This needs to be done for every time that there is a requirement that is different for 10BASE-Te. The paragraph near the beginning of 14.3.1.2 that contains the reference to Figure 14-7 is an example where it was done right.

In the title of Clause 14, change "and type 10BASE-Te" to "including type 10BASE-Te".

14.1.1 - Change note to read: "Support for both 10BASE-T and 10BASE-Te signal levels in a single device is not required".

14.1.1.3 - Change text on page 16, line 5 from: "The performance specifications of the 10BASE-T simplex ..." to: "The performance specifications of the 10BASE-T except 10BASE-Te simplex ..."

14.3 - Delete additional sentence "This subclause also defines the. *"

14.3.1.2 Change page 17, line 8 from: "For a type 10BASE-T MAU, insertion." to: "For a type 10BASE-T MAU that is not a type 10BASE-Te MAU, insertion."

Change text on page 18, line 44 from: "Figure 14-7 for 10BASE-T and .." to: "Figure 14-5 for 10BASE-T except 10BASE-Te and .."

Change text on page 19, lines 12, 18 and 25 from: "For 10BASE-T and .." to: "For 10BASE-T except 10BASE-Te and .."

Change text on page 19, line 52 from: "For a 10BASE-T MAU." to: "For a 10BASE-T MAU that is not a 10BASE-Te MAU."
Branches from LPI_IDLE_D near line 13:

On the branch from LPI_IDLE_D to RX_LINK_FAIL, change the condition from "rx_ts_timer_done" to "signal_detect = OK * rx_ts_timer_done". On the branch from LPI_IDLE_D to off-page node F, change the condition from "xmit != DATA * SUDI([K28.5])" to "signal_detect = OK * !rx_ts_timer_done * xmit != DATA * SUDI([K28.5])". On the branch from LPI_IDLE_D to LPI_K, change the condition from "xmit = DATA * SUDI([K28.5])" to "signal_detect = OK * !rx_ts_timer_done * (xmit = DATA * SUDI([K28.5]))".

Branches from LPI_K near line 19:

On the branches from LPI_K to off-page nodes D, F, and C as well as the branch back to LPI_IDLE_D, insert the condition "signal_detect = OK * <cond>" where <cond> is replaced by the previously-stated condition.

Branches from RX_WAKE near line 32:

On the branch to RX_WTF, insert the condition "signal_detect = OK * !(code_sync_status = OK * SUDI([K28.5]/EVEN)) * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * ..." into the condition for this branch.

Similarly, in branches from RX_WTF near line 36:

On the branch to RX_LINK_FAIL, insert the condition "signal_detect = OK * !(code_sync_status = OK * SUDI([K28.5]/EVEN)) * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal_detect = OK * ..." into the condition for this branch.

Response

ACCEP IN PRINCIPLE.

Use changes as suggested for branches from LPI_IDLE_D and LPI_K. Use the following for the other two:

Branches from RX_WAKE near line 32:

On the branch to RX_WTF, insert the condition "signal_detect = OK * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal Detect = OK * Irx_tw_timer_done * ..." into the condition for this branch.

Similarly, in branches from RX_WTF near line 36:

On the branch to RX_LINK_FAIL, insert the condition "signal_detect = OK * !(code sync status = OK * SUDI([K28.5]/EVEN)) * ..." into the condition for this branch. On the branch to RX_WAKE_DONE, insert the condition "signal Detect = OK * ..." into the condition for this branch.
The bit assignments still aren't right. Bits 3 through 1 of the register should map to U3 through U1 of the U field. I.e. each bit in the register should map to the corresponding bit of the U field. This was agreed in the resolution of my comment 416 on the first ballot and in the response to 193 in the first recirculation.

This comment also applies to 45.2.7.14a which should use the same mapping.

**Suggested Remedy**

- Change the mapping of bits 3 through 1 to U3 through U1 respectively in both tables.

- I would also prefer that the resolution in response to 416 be fully implemented - the register bits 0 through 15 should map to U0 through U15 (all bits apply to Clause 73 and only bits 0 through 10 apply to Clause 28) with the unused values reserved. That allows the mapping for the register to U bits to be established now for when additional bits are added later.

**Response**

- ACCEPT IN PRINCIPLE.

- Change 3:1 to U3 through U1 to rectify editorial mistake implementing comment #193.

- Make the change in both tables: 45-157a and 45-157b

- Add a new paragraph after the current one in 45.2.7.13a:

  Bits 10:0 of register 7.60 map to bits U10 through U0 respectively of the unformatted next page following a EEE technology message code as defined in 28C.12. Bits 15:0 of register 7.60 map to bits U15 through U0 respectively of the unformatted next page following a EEE technology message code as defined in 73A.4. Devices using Clause 28 autonegotiation may ignore bits defined for Clause 73 autonegotiation and devices using Clause 73 autonegotiation may ignore bits defined for Clause 28 autonegotiation.

- Also make changes on page 179, 195, 196, 206.

**Comment Status**

- A

**Response Status**

- W

**Thaler, Pat Broadcom**

- Response