REQUESTED REVISION:
STANDARD: IEEE Std 802.3ab-1999
CLAUSE NUMBER: 40C.2.1 and Figure 40C-2
CLAUSE TITLE: Auto-Negotiation Transmit state machine add-on for 1000BASE-T

PROPOSED REVISION TEXT:

Discard the following transitions for the states in Figure 40C-2: 1000T_MP_TX, 1000T_UP1_TX and 1000TUP2_TX.

RATIONALE FOR REVISION:

Figure 28-16 does not continuously reenter the ACKNOWLEDGE DETECT state when mr_page_rx=true. mr_page_rx <= true once for each time the device enters the ACKNOWLEDGE DETECT state. A device only enters the ACKNOWLEDGE DETECT state once for each type of Next Page that it transmits.

Figure 40C-2 has each 1000T TX state reexecuting if mr_page_rx=true. These transitions can be discarded if we can assume that Figure 28-16 is properly working in the background.

IMPACT ON EXISTING NETWORKS:

None. This change is to an informative Annex and therefore will have no effect on equipment compliance. Equipment manufactured using this change will interoperate with existing equipment.

http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1048
Figure 40C-2 as modified by Revision requests 1042 to 1049 - Changes annotated