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+---------------------------------------------------------------------+      1
|                8802-3/802.3 REVISION REQUEST 1247                    |      2
+=====================================================================+      3
                                                                             4
DATE:                  13th August, 2013                                     5
NAME:                  Arthur Marris                                         6
COMPANY/AFFILIATION: Cadence Design Systems                                  7
E-MAIL:                                                                      8
                                                                             9
REQUESTED REVISION:                                                         10
    STANDARD:          IEEE Std 802.3-2012                                  11
    CLAUSE NUMBER:     72.6.10.3.1                                          12
    CLAUSE TITLE:      Variables                                            13
                                                                            14
PROPOSED REVISION TEXT:                                                     15
Delete the transition from the LINK_READY state to the TRAIN_REMOTE state   16
on deassertion of remote_rx_ready in Figure 72-5.                          17
                                                                            18
                                                                            19
RATIONALE FOR REVISION:                                                     20
remote_rx_ready is currently defined as follows:                           21
Boolean variable that is set to FALSE upon entry into the SEND_TRAINING    22
state. The value of remote_rx_ready shall not be set to TRUE until no      23
fewer than three consecutive training frames have been received with the   24
receiver ready bit asserted.                                               25
This implies it cannot be set false in the LINK_READY state, but the arc   26
in the Training state diagram implies that it can. Seeing as state         27
diagrams take precedence over text this is confusing. The text seems to    28
be correct so the arc should be deleted.                                   29
                                                                            30
IMPACT ON EXISTING NETWORKS:                                               31
The text implies the transition in the state diagram is redundant however  32
the text also says that the state diagram always takes precedence (in      33
69.4). It is possible that some implementors have implemented             34
remote_rx_ready so that it cannot be deasserted in the LINK_READY state    35
while others have implemented it so that it can. In either case inter-     36
operability should not be a problem because if training does not complete  37
the auto-negotiation process will force a restart if training does not     38
complete within 500 ms.                                                    39
                                                                            40
                                                                            41
+---------------------------------------------------------------------+     42
| Please attach supporting material, if any                           |     43
| Submit to:- David Law, Chair IEEE 802.3                             |     44
|  and copy:- Wael William Diab, Vice-Chair IEEE 802.3                |     45
|                                                                     |     46
| At:-         E-Mail: stds-802-3-maint-req@ieee.org                  |     47
|                                                                     |     48
|             +------- For official 802.3 use -----------+           |     49
|             | REV REQ NUMBER: 1247                     |           |     50
|             | DATE RECEIVED: 13th August, 2013         |           |     51
|             | EDITORIAL/TECHNICAL                      |           |     52
|             | ACCEPTED/DENIED                          |           |     53
|             | BALLOT REQ'D YES/NO                      |           |     54
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