DATE: 13th August, 2013
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REQUESTED REVISION:
STANDARD: IEEE Std 802.3-2012
CLAUSE NUMBER: 72.6.10.3.1
CLAUSE TITLE: Variables

PROPOSED REVISION TEXT:
Delete the transition from the LINK_READY state to the TRAIN_REMOTE state on deassertion of remote_rx_ready in Figure 72-5.

RATIONALE FOR REVISION:
remote_rx_ready is currently defined as follows:
Boolean variable that is set to FALSE upon entry into the SEND_TRAINING state. The value of remote_rx_ready shall not be set to TRUE until no fewer than three consecutive training frames have been received with the receiver ready bit asserted.
This implies it cannot be set false in the LINK_READY state, but the arc in the Training state diagram implies that it can. Seeing as state diagrams take precedence over text this is confusing. The text seems to be correct so the arc should be deleted.

IMPACT ON EXISTING NETWORKS:
The text implies the transition in the state diagram is redundant however the text also says that the state diagram always takes precedence (in 69.4). It is possible that some implementors have implemented remote_rx_ready so that it cannot be deasserted in the LINK_READY state while others have implemented it so that it can. In either case interoperability should not be a problem because if training does not complete the auto-negotiation process will force a restart if training does not complete within 500 ms.

Please attach supporting material, if any
Submit to:- David Law, Chair IEEE 802.3
and copy:- Wael William Diab, Vice-Chair IEEE 802.3
At:-        E-Mail: stds-802-3-maint-req@ieee.org
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