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| 8802-3/802.3 REVISION REQUEST 1225 |  
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DATE: 3rd May, 2010  
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REQUESTED REVISION:  
STANDARD: 802.3-2008  
CLAUSE NUMBER: 45  
CLAUSE TITLE: Management Data Input/Output (MDIO) Interface

PROPOSED REVISION TEXT:

Subclause 45.2.1.71 - RX signal power channel A register (Register 1.141)

Insert the following text after the first sentence (ending "... as described in 55.4.3.1")

The Rx signal power should reflect the power measured when the device transitions out of the state PMA\_Training\_Init\_M or MA\_Training\_Init\_S (as appropriate, see 55.4.6.1), when the link partner is transmitting with PBO\_tx = 4 (8db power backoff).

Make identical changes for 45.2.1.72; 45.2.1.73; 45.2.1.74 (for the other 3 channels).

RATIONALE FOR REVISION:

The current text of 45.2.1.71 instructs the device to measure the receive power "during training." However, one of the functions performed during training is the adjustment of power backoff, therefore the transmit power of the link partner will change. To avoid this ambiguity, it is proposed to record the receive power when the link partner is transmitting at a fixed level.

IMPACT ON EXISTING NETWORKS:

No impact to compliant devices. The change adds a recommendation (indicated by a "should" statement. It is expected that most implementers will be able to implement this by a modification to their firmware. Vendors should indicate to users of the devices whether they conform to the recommendation or not.

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| Please attach supporting material, if any
| Submit to:- David Law, Chair IEEE 802.3
|   and copy:- Wael William Diab, Vice-Chair IEEE 802.3
|               E-Mail: stds-802-3-maint-req@ieee.org
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|           +----- For official 802.3 use -----+
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| For information about this Revision Request see -
| http://www.ieee802.org/3/maint/requests/revision\_history.html#REQ1225
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