802.3/802.3 REVISION REQUEST

DATE: March 07, 2005
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REQUESTED REVISION:
STANDARD: IEEE Std. 802.3ah-2004
CLAUSE NUMBER: 57
CLAUSE TITLE: Operations, Administration, and Maintenance (OAM)

PROPOSED REVISION TEXT:
In Figure 57-5--OAM Discovery state diagram add the line
"Start local_lost_link_timer" to the FAULT state.

In subclause 57.3.2.1.1 FAULT state change the line, "Then, local_stable
is set to FALSE," to "Then, local_stable is set to FALSE and
local_lost_link_timer is reset."

RATIONALE FOR REVISION:
When local_lost_link_timer_done is true an OAM capable device is
required to return to the FAULT state. The device will remain in this
state until the local_lost_link_timer is restarted. However
local_lost_link_timer is restarted only on the reception of an OAMPDU.
This presents an issue because the device is in the FAULT state as a
result of not receiving an OAMPDU from its remote partner for 5 seconds.

Once the device is stuck in the FAULT state, it can no longer transmit
OAMPDUs because local_pdu <= RX_INFO. The remote OAM device will then
fall into the FAULT state because its local_lost_link_timer_done will be
true after 5 seconds. Now both devices are stuck in the FAULT state.

IMPACT ON EXISTING NETWORKS:
Minimal impact on existing networks. Current implementations tested in
our lab already demonstrate the suggested behavior. This change would
make a number of existing devices conformant.

Please attach supporting material, if any
Submit to:- Bob Grow, Chair IEEE 802.3
E-MAIL: bob.grow@intel.com

REV REQ NUMBER: 1159
DATE RECEIVED: 7th March, 2005
EDITORIAL/TECHNICAL
ACCEPTED/DENIED
BALLOT REQ'D YES/NO
COMMENTS:

For information about this Revision Request see:
http://www.ieee802.org/3/maint/requests/revision_history.html #REQ1159