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|                      8802-3/802.3 REVISION REQUEST                 |
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DATE: July 15, 2015
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REQUESTED REVISION:
   STANDARD: 802.3-2012
   CLAUSE NUMBER: 57
   CLAUSE TITLE: Operations, Administration, and Maintenance (OAM)
PROPOSED REVISION TEXT:

1) Define a new variable pdu_limit that has the value equal to
   aSlowProtocolFrameLimit attribute.
2) In state diagram 57-6, replace the hardcoded value 10 with variable
   pdu_limit in the following locations:
      - in state RESET
      - in two transitions out of state WAIT_FOR_TX

The detailed changes are shown in red in the attached file
MR_pdu_limit.pdf

RATIONALE FOR REVISION:

The maintenance request 1229 intended to make the maximum slow
protocol frame rate configurable. To do so, it has added a new attribute
aSlowProtocolFrameLimit (see 30.3.1.1.38) and modified the
requirements in 57A.2 (see
http://www.ieee802.org/3/maint/requests/maint_1229.pdf).

However, the necessary changes to state diagarm 56-7 were missed
at that time. This state diagram has the value "10" hardcoded
in several places, effectively limiting the number of OAMPDUs that
can be sent by an OAM client to 10.

IMPACT ON EXISTING NETWORKS:

None. The changes are required to ensure that the actual maximum OAMPDU
rate matches that provisioned by the user or the network operator.

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|Please attach supporting material, if any                         |
|Submit to:-   David Law, Chair IEEE 802.3                         |
|and copy:-    Adam Healey, Vice-Chair IEEE 802.3                  |
|                                                                  |
|At:-          E-Mail: stds-802-3-maint-req@ieee.org              |
|                                                                  |
|              +------- For official 802.3 use -----------+        |
|              |  REV REQ NUMBER: 1280                     |        |
|              |  DATE RECEIVED: 15th July, 2015           |        |
|              |  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#REQ1280 |
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57.0.1 State diagram variables

57.0.1.1 Variables

pdu_limit
> This variable represents the maximum number of OAMPDUs that are allowed to be transmitted in one second. The value of pdu_limit variable is equal to the value of the aSlowProtocolFrameLimit attribute (see 30.3.1.1.38).

57.0.1.2 Transmit

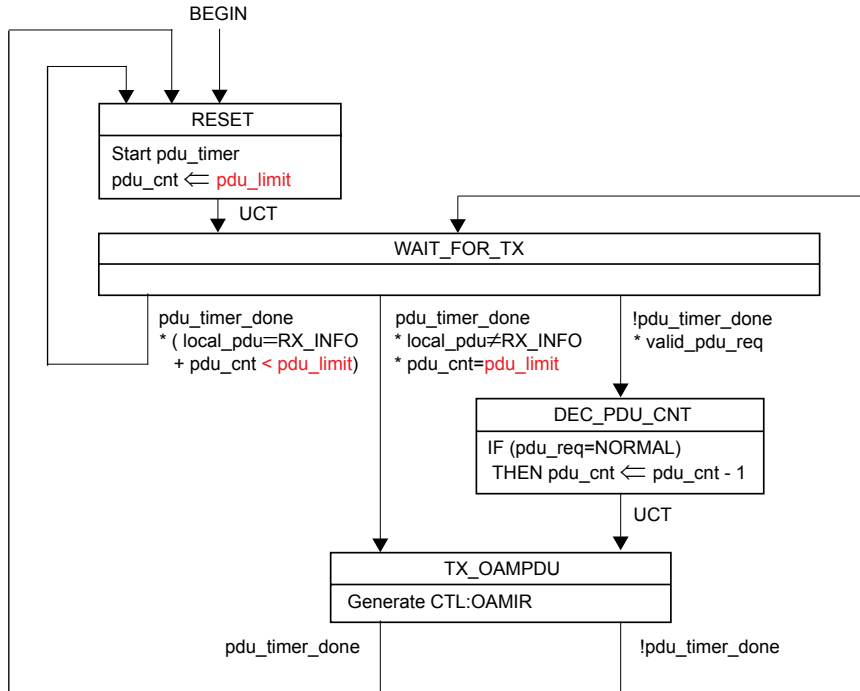OAM sublayer entities shall implement the Transmit state diagram shown in Figure 57–1.

BEGIN

RESET

Start pdu_timer
pdu_cnt ⇐ pdu_limit

UCT

WAIT_FOR_TX

pdu_timer_done
* (local_pdu=RX_INFO
+ pdu_cnt < pdu_limit)

pdu_timer_done
* local_pdu≠RX_INFO
* pdu_cnt=pdu_limit

!pdu_timer_done
* valid_pdu_req

DEC_PDU_CNT

IF (pdu_req=NORMAL)
THEN pdu_cnt ⇐ pdu_cnt - 1

UCT

TX_OAMPDU

Generate CTL:OAMIR

pdu_timer_done

!pdu_timer_done

Figure 57–1—Transmit state diagram