

<pre> +-----+ 8802-3/802.3 REVISION REQUEST 1176 +-----+ DATE: 11th Nov, 2005 NAME: Marc Kimpe COMPANY/AFFILIATION: ADTRAN Inc. E-MAIL: marc.kimpe@adtran.com REQUESTED REVISION: STANDARD: IEEE Std 802.3-2005 CLAUSE NUMBER: 61 CLAUSE TITLE: PCS, TC sublayer and common specifications, type 10PASS-TS and type 2BASE-TL. PROPOSED REVISION TEXT: 1) 61.2.2.8.2 PME Aggregation - management entity signals Add text: Optionally, OAM frames can be sent on a particular PME of an aggregate. As for the fragmentation engine, the algorithm to do so is left to the implementer. If OAM frames are sent on a particular PME, they cannot violate any of the fragment size or normal operation of the fragmentation engine. The ability to send OAM frames on a particular PME is indicated in 61.2.3 and 45.2.3.17. Appropriate OAM frames are defined in 57.4.3.7. 2) 61.2.3 PCS sublayer: Management entity signals Add variable and corresponding text: Send_OAM_on_particular_PMEs This register is implemented in the CO or CPE sub-type. It indicates the ability to send OAM cells on a particular PME of an aggregate. A value of "1/0" means that the OAM layer "has/has not" the ability to send OAMPDUs on a given loop. Each side signals this ability during discovery to its peer by setting the send_OAM_on_particular_PME G.hs bit to "1/0" depending on whether it "supports/does not support" this feature. 3) 45.2.3.17 10P/2B capability register (3.60) Modify Table 45-42a by adding the following 2 rows: 3.60.14 Send_OAM_on_particular_PMEs 1= Available 0= not supported 3.60.13 Remote Send_OAM_on_particular_PMEs 1= Available 0= not supported 4) Request a change to bit 3 of Table 9.38.2/G.994.1 - Identification field - Bonding - PME Aggregation NPar(3) coding - Octet 1 from "Reserved for allocation by the ITU-T" to "Send_OAM_on_particular_PME". The request has to be sent to the ITU-T SG15/Q4 </pre>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54
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RATIONALE FOR REVISION: 1
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Although this maintenance request could be considered on its own, the 3
functionality part of per loop OAMPDUs is proposed in a companion 4
maintenance request to clause 57. 5
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Once applied to an aggregate, OAMPDUs do not have the same visibility to 7
PMEs as when those PMEs are not part of an aggregate. Since 2BASE-TL or 8
10PASS-TS loops might be part of the access network and not easily 9
accessible, the ability to do diagnostic on a per loop basis while not 10
disrupting the other loops is valuable. The ability to do continuity 11
testing on a per loop basis is also valuable. 12
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Although nothing prevents OAM cells from being sent on a particular loop 14
in the current version of the standard, there is no way to signal that 15
ability to a peer-OAM client. By implementing changes 1 to 4 of the 16
present request, the ability to signal a peer OAM client will be defined. 17
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IMPACT ON EXISTING NETWORKS: 20
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There is no impact on existing networks. Legacy equipment will ignore the 22
proposed bits and signals. 23
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| Please attach supporting material, if any | 26
| Submit to:- Bob Grow, Chair IEEE 802.3 | 27
| E-Mail: Bob.Grow@intel.com | 28
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| | For official 802.3 use | 30
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| | BALLOT REQ'D YES/NO | 35
| | COMMENTS: 11-Nov-05 Ver: D1.0 Status: R | 36
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| | For information about this Revision Request see - | 38
| | http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1176 | 39
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