

IEEE P802.3de Enhancements to MAC Merge and TSSI for Pt-to-Pt SPE Initial Working Group ballot comment

CI **FM** SC **FM** P1 L 29 # 6

Dawe, Piers

Nvidia

Comment Type **ER** Comment Status **A** PAR scope

In Section 7, "MAC Merge sublayer" appears 54 times and "MAC Merge function" does not appear at all.

SuggestedRemedy

Follow the established terminology; change "MAC Merge function" to "MAC Merge sublayer" in three places.

Response Response Status **W**

ACCEPT IN PRINCIPLE.

Change "MAC Merge function" to "MAC Merge sublayer" in the Abstract on page 3.

Leave it as "MAC Merge function" on pages 1 and 10, to align with the PAR Scope in 5.2b.

"MAC Merge function" is the terminology used in the PAR, and the purpose of the amendment needs to match the PAR in the description of the amendment on page 1 and in the frontmatter. This difference was discussed when the PAR was written, and the "function" is what we specify - the "sublayer" is the mechanism we specify that function in. For the text on page 1 and the description, "function" is correct, while the abstract defines what specifications actually changed (not why it was changed) and therefore the change to sublayer is appropriate there.

CI **99** SC **99.1** P14 L 9 # 14

Dawe, Piers

Nvidia

Comment Type **TR** Comment Status **A** Half-Duplex

This would extend MAC Merge to half-duplex PHYs at 100 Mb/s and 1000 Mb/s which I do not believe is the intention and is outside the scope of the PAR (5.2.b says "10 Mb/s Single Pair Ethernet point to point PHYs"). TR because outside the scope of the PAR.

SuggestedRemedy

Delete "full-duplex" here where it applies to 100 Mb/s or higher, or change the PAR.

Response Response Status **W**

ACCEPT IN PRINCIPLE.

Accommodated by comment 39:

Response to comment 39 is:

ACCEPT IN PRINCIPLE.

Replace the first sentence of 99.1 (with appropriate change marks and change instruction from the base text), to read:

"This clause specifies an optional MAC Merge sublayer operating in a station with a pair of MACs and a single PHY connected to a point-to-point link. The clause is applicable to full-duplex operation with 10BASE-T1L (Clause 146) and 10BASE-T1S (Clause 147) PHYs and all phys 100 Mb/s and above. It is also applicable to half-duplex point-to-point operation with the 10BASE-T1S (Clause 147) PHY, but operation with the 10BASE-T1S PHY in multidrop mode is not specified."

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Cl 99 SC 99.1 P14 L10 # 17

Dawe, Piers Nvidia
 Comment Type **TR** Comment Status **A** Half-Duplex

As for Clause 90, need to make clear which modes of 10BASE-T1S can and can't use MAC Merge (according to the scope of the project in the PAR, only the point to point modes can). The draft text is too brief, and may be ambiguous.

SuggestedRemedy

Add a sentence "The MAC Merge sublayer is optional with 10BASE-T1S in full-duplex point-to-point and half-duplex point-to-point modes, and not applicable with 10BASE-T1S half-duplex shared-medium mode (referred to as multidrop mode); or make this clear and unambiguous another way; or change the PAR.

Response Response Status **W**

ACCEPT IN PRINCIPLE.
 Accomodated by comment 39:
 Response to comment 39 is:
 ACCEPT IN PRINCIPLE.
 Replace the first sentence of 99.1 (with appropriate change marks and change instruction from the base text), to read:

"This clause specifies an optional MAC Merge sublayer operating in a station with a pair of MACs and a single PHY connected to a point-to-point link. The clause is applicable to full-duplex operation with 10BASE-T1L (Clause 146) and 10BASE-T1S (Clause 147) PHYs and all phys 100 Mb/s and above. It is also applicable to half-duplex point-to-point operation with the 10BASE-T1S (Clause 147) PHY, but operation with the 10BASE-T1S PHY in multidrop mode is not specified."

Cl 90 SC 90.4.3.1.1 P13 L39 # 37

Slavick, Jeff Broadcom
 Comment Type **TR** Comment Status **A** Half-Duplex

The sentence is describing a behavior that TimeSync Client will see for half-duplex PHYs. This is not defining what TS_TX.indication is.

SuggestedRemedy

Add "NOTE" before the sentence beginning with "When using the half-duplex"

Response Response Status **W**

ACCEPT.

Cl 90 SC 90.1 P13 L10 # 62

Hajduczenia, Marek Charter Communications
 Comment Type **ER** Comment Status **A** Alignment

I believe the baseline text is NOT taken from 802.3dc-D2.2. Entry for "50GMII (Clause 132)," is missing

SuggestedRemedy

The list of supported xMII should be as follows: "The MII (Clause 22), GMII (Clause 35), XGMII (Clause 46), 25GMII (Clause106), XLGMII (Clause 81), CGMII (Clause 81), 50GMII (Clause 132), 200GMII (Clause 117), and 400GMII (Clause 117)"

Response Response Status **W**

ACCEPT.
 Editor's implementation note - this text was deleted, by comment 30, effectively accomplishing the textual alignment requested.

Cl 99 SC 99.4.5 P14 L25 # 64

Hajduczenia, Marek Charter Communications
 Comment Type **ER** Comment Status **A** PICS

New shall added, no PICS added / updated.
 The same in line 33 on page 14

SuggestedRemedy

Per comment

Response Response Status **W**

ACCEPT IN PRINCIPLE.
 Accomodated by comment #34
 Response to comment #34 is ACCEPT:
 (Add 99.5.3.1 Functional specifications PICS table to draft, inserting new PICS items, with editing instruction and inserts:
 Insert new rows for PICS items MM11a and MM13a as shown (unchanged rows not shown):

"MM11a,
 Feature = Receive processing PLS_SIGNAL.indication, Section = 99.4.5, Value/Comment = If PLS_SIGNAL.indication is received, indication with the same SIGNAL_STATUS is sent to the pMAC.
 Status = M
 Support = Yes []"
 "MM13a,
 Feature = Express filter processing PLS_SIGNAL.indication, Section = 99.4.6, Value/Comment = If PLS_SIGNAL.indication is received, indication with the same SIGNAL_STATUS is sent to the eMAC.
 Status = M
 Support = Yes []")