

02.3de Enhancements to MAC Merge and TSSI for Pt-to-Pt SPE 1st Working Group recirculation ballot cc

Cl FM SC FM P13 L9 # 65
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope,
Comment Type E Comment Status A Editorial - FM
 Amendment order shows .3db should be #3 and .3ck should be #4.
SuggestedRemedy
 Change per comment
Response Response Status C
 ACCEPT.

Cl 90 SC 90.1 P16 L8 # 66
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope,
Comment Type T Comment Status A Half Duplex
 Potential technical feasibility, compatibility, and broad market potential issues beyond those envisioned in study group have arisen with the accommodation of half-duplex mode. These were discovered in initial working group ballot and force reconsideration of the 'half duplex' objective. Recommend removing half-duplex text from draft and recommend to 802.3 to delete the objective.

SuggestedRemedy
 Remove all edits to clause 90 from the draft (P 16 entirety)
 Remove edits to 99.4 and related PICS in 99.5 from the draft, including related PICS (P17 starting at L18, and all of P18)
 Change edit to 99.1 as follows:
 Remove strikeout of "full-duplex" on L8-9, Delete New sentence on L11 beginning "It is also applicable to half-duplex point-to-point operation... is not specified." so that revised first paragraph of 99.1 as follows (<SO> and shown):
 This clause specifies an optional MAC Merge sublayer <SO>for use<SO>operating in a station with a pair of full-duplex MACs and a single PHY connected to<SO>operating at 100 Mb/s or higher on<SO> 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 100Mb/s and above. The two MACs are:
 - a preemptable MAC (pMAC), which carries the preemptable traffic, and
 - an express MAC (eMAC), which carries the express traffic."

Response Response Status C
 ACCEPT IN PRINCIPLE.
 Accomodated by comments 75-79.
 Response to Comments 75-78 makes the same remedies as suggested to the text and comment 79 proposes the TF recommend removing half-duplex from the objectives as in this comment's text.
 Comment 74 proposed removal of TSSI, but was rejected.

Cl 90 SC 90 P16 L1 # 74
 Thompson, Geoff GraCaSI S.A./Independent
Comment Type TR Comment Status R Half Duplex
 Remove the permission and changes for using the TSSI function (currently only allowed for full duplex) in half duplex mode. Either TSSI works in half duplex or it doesn't. I have seen no evidence that limiting half duplex to P2P makes half duplex all better.

SuggestedRemedy
 Remove lines 1 through 31 from the draft.

Response Response Status W
 REJECT.
 CRG disagrees with commenter. No consensus for change. No problems have been shown with the proposed changes to allow half-duplex support for point to point TSSI.

Straw Poll:
 I support (choose one):
 ACCEPTING THIS COMMENT (removing all TSSI changes):1
 REJECTING THIS COMMENT (leaving TSSI edits as is):6
 Room count: 7 + chair (no vote)

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Cl 99 SC 99.1 P17 L 8 # 75

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status A Half Duplex

Remove all the half duplex stuff. The only change needed for the existing text is to change the 100 to 10.

SuggestedRemedy

Change lines 8 through 14 to read: This clause specifies an optional MAC Merge sublayer for use with a pair of full-duplex MACs and a single PHY operating at 100 Mb/s or higher on a point-to-point link. The two MACs are:

Response Response Status C

ACCEPT IN PRINCIPLE.
(commenters proposed remedy would include ALL 10 Mb/s full duplex PHYs, which is beyond the scope of the PAR. It would also delete wording added to clarify aspects of the first sentence not related to half-duplex operation, and these were subjects of required comments)

Remove strikeout of "full-duplex" on L8-9, and delete D2.1 inserted sentence on L11 beginning "It is also applicable to half-duplex point-to-point operation... is not specified.", revising first paragraph of 99.1 to read as follows (see comment 66 for editing strikeouts and underlines relative to the base standard):

This clause specifies an optional MAC Merge sublayer operating in a station with a pair of full-duplex 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 100Mb/s and above (See Figure 1-1). The two MACs are:
- a preemptable MAC (pMAC), which carries the preemptable traffic, and
- an express MAC (eMAC), which carries the express traffic."

Cl 99 SC 99.4.6 P17 L 36 # 76

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status A Half Duplex

Remove all the half duplex stuff.

SuggestedRemedy

Delete lines 36 – 42

Response Response Status C

ACCEPT IN PRINCIPLE.
Accommodated by comment 79.
Resolution to comment 79 is ACCEPT IN PRINCIPLE.

Delete lines 19-42 on page 17 (beginning with 99.4 header, and including editorial note) (note, related PICs are deleted by comment 77)

Cl 99 SC 99 P18 L # 77

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status A Half Duplex

Remove PICs from the draft added in by half duplex

SuggestedRemedy

Delete page 18

Response Response Status C

ACCEPT.

Cl 00 SC 0 P L # 78

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status A Half Duplex

Get rid of the half duplex objective

SuggestedRemedy

Put forth a motion to 802,3 to change the 3rd objective to read: Enable use of the 10BASE-T1S PHY with Clause 99 MAC Merge in full-duplex point-to-point modes.

Response Response Status C

ACCEPT IN PRINCIPLE.

Task Force to consider proposing to the 802.3 working group to change the 3rd objective to read as follows (changes "modes" to "mode" from suggested remedy):
Enable use of the 10BASE-T1S PHY with Clause 99 MAC Merge in full-duplex point-to-point mode.

Straw poll:

I support changing objective 3

From: Enable use of the 10BASE-T1S PHY with Clause 99 MAC Merge in both half-duplex and full-duplex point-to-point modes.

To: Enable use of the 10BASE-T1S PHY with Clause 99 MAC Merge in full-duplex point-to-point mode.

Y: 11

N: 0

A: 0

Room count: 11

Insert Editor's note at P15 L50 (before body of draft):

Editor's Note (to be removed after D2.2): This draft reflects the Task Force's intent to propose the removal of support for 10BASE-T1S half-duplex for Clause 99 MAC Merge from the project's objectives at the March 2022 IEEE 802.3 working group meeting.

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Cl 99 SC 99.4.5 P17 L 28 # 79

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status A Half Duplex

Remove all the half duplex stuff.

SuggestedRemedy

Delete lines 28 – 35

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete lines 19-42 on page 17 (beginning with 99.4 header, and including editorial note)

Cl 00 SC 0 P12 L 13 # 80

Akin, Sami Volkswagen AG

Comment Type E Comment Status A Editorial - FM

It seems like 'as' is not added after 'as well' in the sencece "...include general information on 40 Gb/s and 100 Gb/s operation as well 40 Gb/s and 100 Gb/s Physical Layer specifications".

SuggestedRemedy

as well' should be 'as well as'.

Response Response Status C

ACCEPT.