

IEEE P802.3as Comments

Cl 00 SC P L Comment # 113
 John Dallesasse Emcore Corporation

Comment Type TR Comment Status A
 PICS are missing for changes to Clause 43B and 57.

Suggested Remedy
 Add PICS.

Response Response Status W
 ACCEPT IN PRINCIPLE.
 The 802.3ah edits to 43B failed to update the PICS item SP1 in 43B.6.2.3 to 10 frames per second. This change will be made.

In addition, PICS entry SP3 also in 43B.6.2.3 needs to be changed to "Basic frame (not Q-tagged frame or envelope frame) format"

In addition, PICS entry PDU1 in 57.7.3.3 needs to be changed to "Frame format | OAMPDUs cannot be Q-tagged frames or envelope frames"

Cl 00 SC P L Comment # 191
 Walter Hurwitz Broadcom

Comment Type TR Comment Status R
 P802.3as does not guarantee compatibility with existing Ethernet devices.

Suggested Remedy

Response Response Status W
 REJECT.
 Though a significant effort has been made to minimize the affect on legacy systems, P802.3as did not set out to guarantee compatibility with existing Ethernet devices. No objective states this goal. Nothing in the PAR states this goal.

Cl 00 SC P 3 L 1 Comment # 155
 Grow, Robert Intel

Comment Type E Comment Status A
 These are changes, not "Revisions". (Revision is a specific type of project and should not be used this way within an amendment project draft.)

Suggested Remedy
 This type of title is not used in publication and could be removed. The clause title in line 25 is all that is included in publication. The published TOC entries simply add "(Changes to)" to the clause/annex title. Delete the header.
 Fix consistently for all clauses included in the draft.

Response Response Status C
 ACCEPT.

Cl 00 SC P 3 L 16 Comment # 156
 Grow, Robert Intel

Comment Type ER Comment Status A
 Somehow, the Editorial Note got changed for this and at least one other 802.3 amendment draft.

Suggested Remedy
 The instructions about the draft are to be an EDITORIAL NOTE (e.g., see IEEE Std 802.3ak-2004). New front matter (currently in review by IEEE staff) to be provided by the WG Chair should include this fix.

Response Response Status C
 ACCEPT IN PRINCIPLE.

Awaiting front matter from 802.3 WG chair (Editorial instructions will be moved to front matter).

This is a gating item for sponsor ballot

Cl 00 SC P 5 L 1 Comment # 162
 Grow, Robert Intel

Comment Type E Comment Status A
 Clauses (other than the first) do not need to start on a new page, and certainly not on a right hand page.

Suggested Remedy
 Consider running all changes continuously, without page breaks.

Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove white space.
 But it is cleaner for clauses to start on a new page.

Cl 00 SC P 5 L 3 Comment # 161
 Grow, Robert Intel

Comment Type E Comment Status R
 The editorial history probably only needs to be included once as there is one TF editor. The same is true of the editing instructions.

Suggested Remedy
 Remove here and from following clauses. (The new front matter will provide the appropriate single location for this information.) But, if the editor wishes to track individual clause changes then by all means keep the Editor's note per clause.

Response Response Status C
 REJECT.
 The editorial histroy differs for each clause and the editor would prefer to keep it until completion.

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CI 00 SC P 9 L 36 Comment # 153

Grow, Robert Intel

Comment Type ER Comment Status A

It looks like the strikethrough and underscore for some of the changed clauses are produced using the Framemaker compare function.

Suggested Remedy

If it is done with a compare, the editor needs to produce a document with hard strikethroughs and underscores on changed text.

If not, add an Editors Note (to be removed prior to final publication):

Color is only used to aid the reviewer and will not be included in the published standard.

Response Response Status C

ACCEPT IN PRINCIPLE.

strikethrough and underscore are not produced using compare. They are created with a character format that includes a colour. An editor's note will be added: "Colour is only used to aid the reviewer and will not be included in the published standard."

CI 00 SC 0 P 1 L 1 Comment # 23

Barrass, Hugh Cisco Systems

Comment Type TR Comment Status A

All references to maxUntaggedFrameSize (that is used to defined frame length in many Clauses) must be addressed. If necessary changes must be made so that the Clauses reflect the old and new standards for frame size. Similarly a search must be conducted for other references to frame size (including the "magic" numbers 1518 and 1522).

Suggested Remedy

Numerous changes required, I will submit further comments for all the missing references that I find.

Response Response Status W

ACCEPT IN PRINCIPLE.

The following comment numbers address this issue: 25 to 35

CI 01 SC 1.3 P 3 L 30 Comment # 157

Grow, Robert Intel

Comment Type E Comment Status A

I doubt it matters what order things are deleted.

Suggested Remedy

Delete "in alphabetic order" from the editing instruction.

Response Response Status C

ACCEPT.

CI 01 SC 1.3 P 3 L 32 Comment # 74

Booth, Brad Intel

Comment Type E Comment Status A

2005 should be underlined.

Suggested Remedy

As per comment.

Response Response Status C

ACCEPT.

CI 01 SC 1.4 P 3 L 40 Comment # 90

Brown, Benjamin Motorola

Comment Type E Comment Status A

Definitions here are basic frame, tagged frame and envelope frame but section 3.1 refer to these as basic MAC frame, tagged MAC frame and envelope MAC frame, respectively, although other places use the original names

Suggested Remedy

replace "basic frame" with "basic frame or basic MAC frame" replace "tagged frame" with "tagged frame or tagged MAC frame" replace "envelope frame" with "envelope frame or envelope MAC frame"

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comments 158,159,160 & 165

CI 01 SC 1.4 P 3 L 40 Comment # 117

Dawe, Piers Agilent

Comment Type E Comment Status R

I was surprised that there isn't a definition of 'frame' in the base document.

Suggested Remedy

Response Response Status C

REJECT.

A definition exists for 'data frame'. No suggested remedy given for 'frame'

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Cl 01 SC 1.4 P 3 L 40 Comment # 158

Grow, Robert Intel

Comment Type TR Comment Status A

These definitions appear to be independent of the previous definitions and they shouldn't be. Basic frame should reference 1.4.127 data frame.

Suggested Remedy

"A data frame that is either length or type encoded and has a maximum length of 1518 octets."
 If we feel compelled to introduce "Ethernet" into the definitions it should be added to data frame and perhaps the definition should be updated to agree with clause 3 of this project:
 "1.4.127 data frame: For Ethernet, consists of the Destination Address, Source Address, MAC Client Data, PAD (if required), and Frame Check Sequence."

Response Response Status C

ACCEPT IN PRINCIPLE.

Modify
 1.4.127 data frame:
 Consists of the Destination Address, Source Address, Length/Type, MAC Client Data, Pad (if required), and Frame Check Sequence.

1.4.xxx basic frame:
 A data frame that carries a Length/Type field with the Length or Type interpretation and has a maximum length of 1518 octets.

Cl 01 SC 1.4 P 3 L 44 Comment # 116

Dawe, Piers Agilent

Comment Type T Comment Status A

Frames contain more than data (payload) and possible tag. Does this definition help?
 ♂1.4.127 data frame: Consists of the Destination Address, Source Address, Length Field, logical link control (LLC) Data, PAD, and Frame Check Sequence. Off topic: should LLC have been MAC client data?

Suggested Remedy

If it's a useful definition, change 'original data' to 'original data frame' in this definition and the next.

Response Response Status C

ACCEPT IN PRINCIPLE.
 See response to comment 158

Cl 01 SC 1.4 P 3 L 44 Comment # 24

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

There is already a definition:
 1.4.334 tagged MAC frame: This new definition should replace the old one.

Suggested Remedy

Remove the paragraph starting "1.4.xxx tagged frame:..." from this section.
 Add a new section that says:
 Change 1.4.334 as follows: MAC frame: A frame that contains a QTag Prefix <u>frame: An Ethernet frame that is type encoded to include an IEEE 802.1Q tag in addition to the original data and has a maximum length of 1522 octets</u>

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 159

Cl 01 SC 1.4 P 3 L 44 Comment # 159

Grow, Robert Intel

Comment Type TR Comment Status A

Should be in context of previous definitions.

Suggested Remedy

"A data frame that is type encoded to include an IEEE 802.1Q tag at the beginning of the MAC Client Data and has a maximum length of 1522 octets"

Response Response Status C

ACCEPT IN PRINCIPLE.

Additional changes per comment 230:

Modify 1.4.334 to be:

1.4.xxx Q-tagged frame:
 A data frame that carries a Type field to indicate only an IEEE 802.1Q tag at the beginning of the MAC Client Data and has a maximum length of 1522 octets.

Inspect 802.3 and replace as appropriate:
 "tag" -> "Q-tag"

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Cl 01 SC 1.4 P 3 L 48 Comment # 160
 Grow, Robert Intel
 Comment Type TR Comment Status A
 Should be in context of previous definitions.
 Suggested Remedy
 A data frame that is type encoded to include additional encapsulation information within the MAC Client Data and has a maximum length of 2000 octets.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Additional changes per comment 230:
 Modify
 1.4.xxx envelope frame:
 A data frame that carries Length/Type field with the Type interpretation that indicates additional encapsulation information within the MAC Client Data and has a maximum length of 2000 octets.

Cl 02 SC 2.1 P 2 L 7 Comment # 195
 David V James JGG
 Comment Type ER Comment Status R
 Figure callouts should all be 8-point Arial, here and throughout. The meaning of larger fonts is unclear and too distracting.
 Suggested Remedy
 8-point Arial throughout.
 Response Response Status W
 REJECT.
 The TF does not consider these larger fonts unclear or distracting

Cl 02 SC 2.1 P 5 L 1 Comment # 152
 Thomas Dineen Dineen Consulting
 Comment Type TR Comment Status R
 Market adoption of super frames has rendered this project obsolete and irrelevant. This has been the case for 20 years. So this project to me is the moral equivalent of trying to lock the barn door 20 years after the horse has escaped.
 Suggested Remedy
 Turn in the PAR and stop work.
 Response Response Status W
 REJECT.
 Currently, 802.1 (with the completion of 802.1ad and 802.1AE) and 802.3 are incompatible. This project retains compatibility between 802.1 and 802.3 as stated in the approved PAR and 5 criteria.

Cl 02 SC 2.1 P 5 L 28 Comment # 75
 Booth, Brad Intel
 Comment Type ER Comment Status R
 Editing instruction should be an insert and should be closer to affected text.
 Suggested Remedy
 Move editing instruction to after 2.1 heading. Change instruction to read: Insert new sentence at the end of the first paragraph. Remove the rest of the paragraph that has had no edits. Remove underline.
 Response Response Status W
 REJECT.
 The current text gives a clearer view of the change and its context.
 Also see response to comment 206.

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Cl 02 SC 2.1 P 5 L 38 Comment # 227
 Thaler, Pat Agilent Technologies

Comment Type E Comment Status A

The last sentence of the paragraph is difficult to parse.

Suggested Remedy

Perhaps make separate sentences for the case where MAC Control is present and the case where it isn't.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change to:

If the MAC Control sublayer is present, the MAC client service primitives MA_DATA.request and MA_DATA.indication interface to both the MAC Control sublayer and then to the MAC. If the MAC Control sublayer is not present, the MAC client service primitives MA_DATA.request and MA_DATA.indication interface just to the MAC.

Cl 02 SC 2.1 P 5 L 38 Comment # 228
 Thaler, Pat Agilent Technologies

Comment Type TR Comment Status A

This comment also affects Clause 31 and its annex.

Having the same primitive name at two sublayers can cause ambiguity. For example, in Clause 31 where the state machine uses MA_Data.indication, it could mean the primitive on the upper interface or the lower interface.

Suggested Remedy

Either create a separate primitive or add a notation to identify the instance of the primitive when there are multiple interfaces with the same primitive names present. For example, (u) and (l) could be put at the end of the name to indicate the primitive instance at the upper and lower interfaces of the sublayer, respectively.

Response Response Status W

ACCEPT IN PRINCIPLE.

Using Fig 57-2 as a model the service primitives will be uniquely identified using MAC: and MCS: prefixes.

Cl 02 SC 2.1 P 5 L 39 Comment # 91
 Brown, Benjamin Motorola

Comment Type E Comment Status A

Extra symbol

Suggested Remedy

reaplace "to: both" with "to both"

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 227

Cl 02 SC 2.1 P 5 L 40 Comment # 224
 Squire, Matt Hatteras Networks

Comment Type E Comment Status A

The ":" is unnecessary.

Suggested Remedy

Delete ":"

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 227

Cl 02 SC 2.1 P 5 L 49 Comment # 37
 Barrass, Hugh Cisco Systems

Comment Type TR Comment Status A

Although I recognize the benefit of the "service to humanity" changes to the service interface, it is imperative that the document integrity is maintained. All references to "TransmitFrame" and "ReceiveFrame" and related topics must be sought out and addressed appropriately.

Suggested Remedy

I will submit a number of separate technical comments for instances that I find. It would be most beneficial for others to conduct similar searches.

Response Response Status W

ACCEPT IN PRINCIPLE.

This is addressed by comments 46 to 63.

Cl 02 SC 2.1 P 6 L 30 Comment # 76
 Booth, Brad Intel

Comment Type E Comment Status A

Editing instruction (and previous editor's note) should refer to the figure as Figure 2-1, not figure 2.1.

Suggested Remedy

As per comment.

Response Response Status C

ACCEPT.

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Cl 02 SC 2.1 P 7 L 1 Comment # 99

George Claseman Micrel Semiconductor

Comment Type T Comment Status A

Figure 2.1 has two instances of 'MA_DATA.request' and 'MA_DATA.indication'.

Suggested Remedy

Label the primitives between the Medium Access Control and MAC Control with unique names.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 228

Cl 02 SC 2.1 P 7 L 13 Comment # 200

Kim, Yong Broadcom

Comment Type TR Comment Status R

I may be mistaken (but don't think so; thus this comment :-)). The page 6 diagram was added to indicate that MAC Control sublayer could source/sink MAC Control Frame (e.g. flow control). You could either: a) undo this proposed change; b) add MA_CONTROL.indication and .request between MAC Control and MAC and look carefully what other changes need to be modified (if any) in Clause 2 and 31.

Suggested Remedy

Do either of the suggested above: a) undo this proposed change; b) add MA_CONTROL.indication and .request between MAC Control and MAC and look carefully what other changes need to be modified (if any) in Clause 2 and 31.

Response Response Status W

REJECT.

Figure 2-1 was changed, not to show the ability of the MAC Control sublayer to source MAC Control frames, but rather to harmonize the interfaces.

Cl 03 SC P 9 L 25 Comment # 163

Grow, Robert Intel

Comment Type TR Comment Status A

This project is not helping with the less than crystal clear definition of what a frame is within 802.3. Unfortunately, it worsens the current state, and I believe should therefore be fixed, even if some of the appropriate fixes may be viewed as a service to humanity. Based on what Clause 1 defines as a data frame and as a packet (terms used in many clauses within the base standard), this clause does not define the frame format, but rather defines a data frame encapsulation which is defined in 1.4 as a packet. See separate file for all changes recommended for this issue and justified in additional comments.

Suggested Remedy

Change title to:

3. Media access control data frame encapsulation

Response Response Status C

ACCEPT IN PRINCIPLE.

Change title to:

3. Media Access Control (MAC) data frame and packet specifications

Cl 03 SC 2.7 P 12 L 21 Comment # 3

Agarwal, Puneet Broadcom

Comment Type TR Comment Status R

Why are we limiting the value of N for QTAG frames to be 1504 bytes? One should allow similar flexibility for the QTAG frames as allowed for non-QTAG frames (1500 or 1982).

Suggested Remedy

Specify that "N" for QTAG frames can be 1504 or 1982.

Response Response Status W

REJECT.

The specification of Q-tagged frames is in IEEE 802.1Q, not in 802.3.

Retaining 1504 is a means of grandfathering Q-tagged frames so that equipment complying with IEEE 802.3ac (now included in IEEE 802.3-2005) will have a compliant codepoint.

A data frame that includes additional 'tags' beyond a single 802.1Q tag is an 'envelope frame'.

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Cl 03 SC 3.1 P 9 L 27 Comment # 77

Booth, Brad Intel

Comment Type ER Comment Status R

Editing instruction should be closer to the affected text and only required edits should be shown.

Suggested Remedy

Remove first paragraph of 3.1. Move editing instruction after the 3.1 heading and change instruction to read: Change 2nd paragraph to read as follows.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

Cl 03 SC 3.1 P 9 L 33 Comment # 164

Grow, Robert Intel

Comment Type ER Comment Status A

The overview is incorrect and adds inconsistent information. Rewrite.

Suggested Remedy

This clause defines the mapping between MAC service interface primitives and Ethernet data frames, including the syntax and semantics of the various components of data frames and the components used to encapsulate those frames into packets. During Ethernet's history, capabilities have been defined as additions to the original data frame to add layer 2 protocol encapsulations within the MAC client data. Three specific applications of data frames have been specified:

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace first paragraph with:

This clause defines the mapping between MAC service interface primitives and Ethernet frames, including the syntax and semantics of the various fields of data frames and the fields used to encapsulate those data frames into packets.

During Ethernet's history, capabilities have been added to allow Layer 2 protocol encapsulations within the MAC client data field.

Cl 03 SC 3.1 P 9 L 36 Comment # 229

Thaler, Pat Agilent Technologies

Comment Type TR Comment Status A

"application" doesnt seem like an accurate word. Usually application refers to something at higher layers in the stack then the encapsulation protocols. Also, it says "the applications below" but what is below are frame types. Also, the subject was changed to singular so the verb needs to change to match

Suggested Remedy

"The MAC frame format is specified in this clause including the following three variants:" In 3.2.7 replace "application modes" with "data field sizes" Also change in 4.2.4.2.1 and 4A.2.4.2 search for other incorrect instances of "application" and replace.

Response Response Status W

ACCEPT IN PRINCIPLE.

Modify 2nd paragraph of 3.1:

The frame format specified in this clause includes the following three types of data frames:

In 3.2.7 replace "application modes" with "data frames"

Also change in 4.2.4.2.1 and 4A.2.4.2 search for other incorrect instances of "application" and replace "data frames".

Cl 03 SC 3.1 P 9 L 36 Comment # 149

Dawe, Piers Agilent

Comment Type T Comment Status A

Strange re-use of the word 'application', at odds with e.g. 1.1.4 or ISO seven layer model.

Suggested Remedy

Use another term, such as 'data field format', 'payload format'.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 229

Cl 03 SC 3.1 P 9 L 42 Comment # 165

Grow, Robert Intel

Comment Type ER Comment Status A

The new terms defined in clause 1 are "basic frame", etc., not "basic MAC frame".

Suggested Remedy

Delete MAC from list items a, b and c.

Response Response Status C

ACCEPT.

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Cl 03 SC 3.1 P 9 L 43 Comment # 11
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status A
 Note that there is no line 43 in this draft
 The use of ",and" for a bulleted item is redundant.
 Suggested Remedy
 Delete ", and"
 Response Response Status C
 ACCEPT.

Cl 03 SC 3.1 P 9 L 45 Comment # 199
 Kim, Yong Broadcom
 Comment Type E Comment Status R
 "c) An envelop MAC frame"
 Suggested Remedy
 Any reason that "encapsulated" was not used in place of "envelop"? I prefer "encapsulated" that more accurately describes what is being allowed.
 Response Response Status C
 REJECT.
 Encapsulated frame would be misleading.
 The intent is that envelope frames contain one or more encapsulations of client data.

Cl 03 SC 3.1.1 P 10 L 1 Comment # 101
 George Claseman Micrel Semiconductor
 Comment Type T Comment Status R
 As the section referring to the Q-tag and frame format with the Q-tag has been removed, it seems that the MAC frame format should also include a variable field between the SA and L/T. This would include the Q-tag as well as other 802.1 additions. In this regard, the N value in the MAC client data would become a function of the field(s) inserted after the SA. It also seems that the original intent was to add frame bytes for 802 use, and to keep the MAC client data at 1500.
 Suggested Remedy
 Provide for a shim field or fields after the SA and prior to the L/T. A side benefit of doing it this way would keep upper layers from using the extra payload now provided. Please consult with 802.1 members as to their intended frame formats in current and future projects.
 Response Response Status C
 REJECT.
 802.1 has been regularly consulted. They are content with the current definition and further given their numerous projects needing longer frames would not support such a shim.
 Also, such a shim would be a format change for Ethernet which is not in the scope of this project.

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CI 03 SC 3.1.1 P 10 L 28 Comment # 169

Grow, Robert Intel

Comment Type TR Comment Status A

To tie things together, data frame should be illustrated on this Figure. Other terms need to be improved also for consistency and clarity.

Suggested Remedy

Add bracket spanning SFD through FCS and label "DATA FRAME".
 Change title to "MAC packet format"
 Replace word "FRAME" in transmission arrows with "PACKET" for the downward arrow and with "OCTET" for the bit order arrow. No bits are defined in the figure so change LEFT TO RIGHT to MSB TO LSB. Make corresponding changes in last paragraph of 3.1.1.

Response Response Status C

ACCEPT.

Add bracket spanning DA through FCS and label "DATA FRAME".
 Add bracket spanning Preamble through FCS and label "PACKET".
 Change figure title to "Packet format"
 Change to:
 OCTETS TRANSMITTED
 TOP TO BOTTOM
 Change to:
 BITS TRANSMITTED
 LEFT TO RIGHT

Change title to : 3.1.1 Packet format

Change first part of clause to:
 Figure 3-1 shows the fields of a packet:

Change:
 ...frame. An extension field is added if required (for 1000 Mb/s half duplex operation only).

Change sentence after figure:
 The minimum and maximum data frame size limits in 4.4 refer to that portion of the packet from the destination address field through the frame check sequence field, inclusive.

Change 3.1.2 text to:
 Figure 3-2 shows the mapping of service interface parameters to the fields of a data frame within a packet.

Change Fig 3-2 title:
 Service primitive mappings

Review and ensure consistent use of 'data frame' & 'packet' through clauses 1-4, 4A & 31.

CI 03 SC 3.1.1 P 10 L 36 Comment # 146

Dawe, Piers Agilent

Comment Type ER Comment Status A

Don't use a hyphen or dash to indicate range, because it means minus.

Suggested Remedy

Change to '46 to N OCTETS'. Note other comments that request that N be changed to maxValidFrame, or much better to maxSize.

Response Response Status W

ACCEPT IN PRINCIPLE.

See response to comment 144

CI 03 SC 3.1.1 P 10 L 37 Comment # 100

George Claseman Micrel Semiconductor

Comment Type E Comment Status A

"(see clause 3.2.7)"

Suggested Remedy

"(see subclause 3.2.7)" or "(see 3.2.7)"Also, put in hyperlink to 3.2.7.

Response Response Status C

ACCEPT IN PRINCIPLE.
 "(see 3.2.7)"

CI 03 SC 3.1.1 P 10 L 38 Comment # 147

Dawe, Piers Agilent

Comment Type E Comment Status A

3.2.7 isn't a clause

Suggested Remedy

Delete 'clause'.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 105

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Cl 03 SC 3.1.1 P 10 L 54 Comment # 170

Grow, Robert Intel
 Comment Type ER Comment Status A

Inconsistent usage of terminology.

Suggested Remedy

The minimum and maximum frame size limits in 4.4 refer to that portion of the packet from the destination address field through the frame check sequence field, inclusive (the data frame).

Response Response Status C

ACCEPT IN PRINCIPLE.

The minimum and maximum frame size limits in 4.4 refer to that portion of the packet from the destination address field through the frame check sequence field, inclusive (i.e., the data frame).

Cl 03 SC 3.1.1 P 9 L 47 Comment # 166

Grow, Robert Intel
 Comment Type TR Comment Status A

This isn't the frame format, it is the packet format.

Suggested Remedy

Change to:
 3.1.1 MAC packet format
 Alternately, change to:
 3.1.1 MAC packet and frame formats
 Then, add a new figure showing the packet encapsulation of the frame (prepending of preamble and SFD to the data frame) so that the frame format picture is the same as in Clause 31.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response comment 169

Cl 03 SC 3.1.1 P 9 L 48 Comment # 78

Booth, Brad Intel
 Comment Type ER Comment Status R

Editing instruction for 3.1 shouldn't be used so broadly. Insert a new editing instructions for 3.1.1.

Suggested Remedy

Add new editing instruction after 3.1.1 to read: Change 1st sentence of the 1st paragraph to read as follows. Remove the remaining unchanged sentences from that paragraph. Add another editing instruction before the figures to read: Change Figure 3-1 to read as follows. Remove the other unchanged paragraphs from 3.1.1.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

Cl 03 SC 3.1.1 P 9 L 49 Comment # 167

Grow, Robert Intel
 Comment Type TR Comment Status A

The packet has nine fields, not the frame.

Suggested Remedy

Change to read: "...nine fields of a packet:"

Response Response Status C

ACCEPT IN PRINCIPLE.

See response comment 169

Cl 03 SC 3.1.1 P 9 L 50 Comment # 118

Dawe, Piers Agilent
 Comment Type E Comment Status A

As the destination field comes first, it would be nice while you have this clause open to get the description of the format into the same order.

Suggested Remedy

Consider changing 'frame's source and destination' to 'frame's destination and source'

Response Response Status C

ACCEPT.

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Cl 03 SC 3.1.1 P 9 L 55 Comment # 168
 Grow, Robert Intel
 Comment Type ER Comment Status A
 The word data is imprecise.
 Suggested Remedy
 Change "data" to "MAC client data".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "data" to "MAC client data".
 Change in the text, figures and 3.2.7 and search for other instances

Cl 03 SC 3.1.2 P 11 L 1 Comment # 179
 Booth, Brad Intel
 Comment Type ER Comment Status R style
 Editing instruction for 3.1 shouldn't be used so broadly. Insert a new editing instructions for 3.1.2.
 Suggested Remedy
 Insert an editing instruction before 3.1.2 to read: Insert subclause 3.1.2 and Figure 3-2; renumber remaining figures in the clause. Remove underlines from 3.1.2.
 Response Response Status W
 REJECT.
 The current text gives a clearer view of the change and its context.
 Also see response to comment 206.

Cl 03 SC 3.1.2 P 11 L 19 Comment # 204
 Marris, Arthur Cadence
 Comment Type T Comment Status A
 Figure 3-2 has dooted and solid horizontal lines. Presumably the dotted lines indicate that the pad and FCS may or may not be present as parameters to MA_DATA.request. It would be nice to have some text explaining this.
 Suggested Remedy
 How about adding "The MAC client may or may not supply PAD and FCS. For this reason the mapping for PAD and FCS is shown with a dotted line."
 Response Response Status C
 ACCEPT.

Cl 03 SC 3.1.2 P 11 L 22 Comment # 196
 Kim, Yong Broadcom
 Comment Type TR Comment Status R
 What is the function of the "EXTENSION" after FCS?
 Suggested Remedy
 Delete or provide description and rationale.
 Response Response Status W
 REJECT.
 The opening paragraph of 3.3.1 (which immediately precedes Figure 3-1) explains that the optional extension field is used for half-duplex 1000 Mb/s operation.

Cl 03 SC 3.1.2 P 11 L 3 Comment # 171
 Grow, Robert Intel
 Comment Type E Comment Status A
 Consistent usage of terms requested.
 Suggested Remedy
 Figure 3-2 shows the mapping of service interface parameters to the data frame fields.
 Also, change "frame" in figure 3-2 title to "data frame".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 169

Cl 03 SC 3.1.2 P 11 L 39 Comment # 119
 Dawe, Piers Agilent
 Comment Type TR Comment Status R
 This document does not tell me what the value of the type field should be, nor give a clear and specific reference to where that information is (I don't want to register a new type or use prototype/vendor-specific types: those references as described here are not helpful for the regular situations). Specifically referring to P802.3as: for the new envelope frame format, what is the value of the type field?
 Suggested Remedy
 Add the missing information: as a table, a statement in text, or a clear, specific, authoritative reference to a standard.
 Response Response Status W
 REJECT.
 The Type field value for each protocol is not defined within 802.3, nor is there a unique mapping to basic or envelope frames. These are defined by higher layers and a registration already exists for them (see footnote at bottom of D2.0/page11).

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Cl 03 SC 3.1.2 P 11 L 7 Comment # 194
 David V James JGG
 Comment Type **TR** Comment Status **A** Pub Editor
 Figures should not have ALL CAPS, since the names of critical fields are not in ALL CAPS when referenced in the text. Also, IEEE does not allow mixed ALL CAPS and normal text.
Suggested Remedy
 Eliminate all ALL CAPS from figures, here and throughout. Of course, formal acronyms are an exception.
 Response Response Status **W**
 ACCEPT IN PRINCIPLE.
 Editor will verify publication editor's resolution on CAPS in figures, and we will not change from the format of published 802.3-2005 in this amendment.

Cl 03 SC 3.2.6 P 11 L 53 Comment # 235
 Thompson, Geoff Nortel
 Comment Type **ER** Comment Status **R**
 Note refers to 802a but this document is not referred to in the references
Suggested Remedy
 Add to references
 Response Response Status **W**
 REJECT.
 802a is listed in the references of the base standard (REVam/2005 edition)

Cl 03 SC 3.2.6 P 11 L 29 Comment # 80
 Booth, Brad Intel
 Comment Type **ER** Comment Status **R**
 Move editing instruction closer to affected text and remove unchanged text.
Suggested Remedy
 Change editing instruction to read: Change bullet a) to read as follows. Show only bullet a). Remove all other text in the subclause.
 Response Response Status **W**
 REJECT.
 The current text gives a clearer view of the change and its context.
 Also see response to comment 206.

Cl 03 SC 3.2.6 P 11 L 36 Comment # 197
 Kim, Yong Broadcom
 Comment Type **T** Comment Status **A**
 By adopting longer frames, MIB variables, alnRnageLengthErrors, and aOutOfRangeLengthField in Layer Mgmt (clause 5) needs an update, since those counters on longer count useful events (i.e. IEEE 802.2 LLC versus Ethertype).
Suggested Remedy
 Please revise the alnRnageLengthErrors, aOutOfRangeLengthField Layer Mgmt (clause 5) accordingly.
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 5.2.2.1.23 and 5.2.2.1.24 have been deprecated.
 Instead, 30.3.1.1.23 and 30.3.1.1.24 should be updated.

IEEE P802.3as Comments

CI 03 SC 3.2.6 P 12 L Comment # 223

Satoshi Obara Fujitsu Limited

Comment Type TR Comment Status A

There are some confusion in Fig 3-1, 3.2.6 and 3.2.7. Fig 3-1 and 3.2.7 define as follows; the size of MAC client data+PAD is 46-N octets(N=1500,1504,1982). On the other hand, 3.2.6 says define as follows;

If the value of this field is less than or equal to 1500 decimal, then the Length/Type field indicates the number of MAC client data octets contained in the subsequent data field of the frame (Length interpretation). If somebody wants to use the protocol which uses a Maximum EnvelopeFrame(N=1982 octets) and does not use Type Value(like an OSI protocol),what the value of Type/Length Field in such frame should they use? In the view of not to change the interpretation method nor not to change the original data field length, we can resolve above issue with the changing description "frame"into "basic frame" in 3.2.6.

Suggested Remedy

Change 3.2.6 a) "the number of MAC client data octets contained in the subsequent data field of the frame(Length interpretation)."

into

"the number of MAC client data octets contained in the subsequent data field of its basic frame (Length interpretation)."

Response Response Status W

ACCEPT IN PRINCIPLE.

Change 3.2.6 a) "the number of MAC client data octets contained in the subsequent data field of the frame(Length interpretation)."

into

"the number of MAC client data octets contained in the subsequent data field of the basic frame (Length interpretation)."

CI 03 SC 3.2.7 P 12 L 15 Comment # 198

Kim, Yong Broadcom

Comment Type TR Comment Status A

"one of three application modes". How does one determine which mode a MAC is in. If there is no mode selection, in fact, there is no multiple modes. Also, the note on line 24, while I understand that a "SHALL" cannot be placed due to the lack of conformance test point, a stronger warning such that if a conformance test point exist for a given application (i.e. 802.1ad), it SHALL be tested and rule not-compliant.

Suggested Remedy

Provide mode selection method, or revise the text to describe this operation in MAC services model.

Response Response Status W

ACCEPT IN PRINCIPLE.

See response to comment 229

CI 03 SC 3.2.7 P 12 L 15 Comment # 2

Agarwal, Puneet Broadcom

Comment Type TR Comment Status A

For a frame with "type" interpretation, how would the MAC implementation decide whether to treat the frame as a "basic frame" or an "envelope frame" to determine the maxFrameSize value?

Suggested Remedy

Response Response Status W

ACCEPT IN PRINCIPLE.

The implementation decides what maximum supported data frame size it will accept.

Change in 4.2.9:

exceedsMaxLength := ...; {Check to determine if receive frame size exceeds the maximum permitted frame size. MAC implementations may use either maxBasicFrameSize or (maxBasicFrameSize + qTagPrefixSize) or maxEnvelopeFrameSize for the maximum permitted frame size. It is recommended to use a larger value, the use of a smaller value may result in valid tagged or envelope frames exceeding the maximum permitted frame size.}

IEEE P802.3as Comments

Cl 03 SC 3.2.7 P 12 L 18 Comment # 145
Dawe, Piers Agilent

Comment Type ER Comment Status R

It seems to me that while maxBasicFrameSize and maxEnvelopeFrameSize define the maximum size of a frame, as described in 1.4 3.1.1 (frameSize and minFrameSize also relate to the size of the frame), maxValidFrame does not: it defines the maximum size of the data field. (See another comment about N which should be maxValidFrame).

Suggested Remedy

Change maxValidFrame, and instances of N that mean maxValidFrame, to maxDataSize.

Response Response Status W

REJECT.

See responses to comments 144, 189

Cl 03 SC 3.2.7 P 12 L 18 Comment # 174
Grow, Robert Intel

Comment Type ER Comment Status A

A basic frame includes neither tags nor envelopes.

Suggested Remedy

"...no additional tags or envelopes..."

Response Response Status C

ACCEPT IN PRINCIPLE.

"...no additional tags or encapsulations..."

Cl 03 SC 3.2.7 P 12 L 18 Comment # 107
Daines, Kevin World Wide Packets

Comment Type T Comment Status R

The descriptive text in this bulleted list is duplicative of the definitions found in 1.4. It should be sufficient to just have the "basic frame", etc.

Suggested Remedy

pg. 12, line 18: Change bullet a) to: "N=1500 decimal - basic frames"
pg. 12, line 20: Change bullet b) to: "N=1504 decimal - tagged frames"
pg. 12, line 22: Change bullet c) to: "N=1982 decimal - envelope frames"

Response Response Status C

REJECT.

This comment was WITHDRAWN by the commenter.

Cl 03 SC 3.2.7 P 12 L 18 Comment # 230
Thaler, Pat Agilent Technologies

Comment Type TR Comment Status A

"encoded" The length/type definition doesn't refer to the field as an encoding and it doesn't really define the encoding of the frame (especially when it is a length). Also c) only applies to frames with a Type field but doesn't say so.

Suggested Remedy

"that carry a Length/Type field with either the Length or Type interpretation".

add to c) "and carry a Length/Type field with the Type interpretation."

Response Response Status W

ACCEPT IN PRINCIPLE.

Replace in a) "that are either length or type encoded" with
"that carry a Length/Type field with either the Length or Type interpretation"

add to c) "and carry a Length/Type field with the Type interpretation."

Also see comments 159, 160

Cl 03 SC 3.2.7 P 12 L 18 Comment # 144
Dawe, Piers Agilent

Comment Type ER Comment Status A

The quantity N which was formerly a variable, an example MAC client data size, is now also being used as a (conditional) spec limit, the maximum size of the data field. This is not correct. This limit is already named maxValidFrame. See another comment about this name.

Suggested Remedy

In 3.2.7 including figure 3-1, change N to maxValidFrame. Give a look-ahead reference at line 15: 'determine the value of maxValidFrame in Figure 3-1 and 4.2.7.1'. Do not make this change in the new 3.2.8 - see another comment.

Response Response Status W

ACCEPT IN PRINCIPLE.

maxValidFrame has been removed and is not used per response to comment 189

Remove use of N in Figure 3-1:
46 to 1500 or 1504 or 1982 OCTETS
(see clause 3.2.7)

Remove use of N in clause 3.2.7:
- remove paranthetical in 2nd paragraph
- remove 'N=' in each lettered item
- correct grammar as required

IEEE P802.3as Comments

Cl 03 SC 3.2.7 P 12 L 22 Comment # 201
 Kim, Yong Broadcom

Comment Type TR Comment Status R

I know N=1982 was controversial , and a contender for this value was the repeater max, the worst one being the 10 Mb/s system that allows for +/- 3 bit FIFO (since old max required +/- 2.4 bits) or 30,000/2/8 = 1875 bytes minus 18 byte HDR + FCS of 1857. I gave it a careful consideration and could not come up with any justification to go beyond 1875, based on any presentation I've seen (802.1 MAC SEC requirements, 802.1 Provider bridging, MPLS, PPPoE, Ethernet over IP, and some absurd combination of the them). Based on this, I do not see the justification to obsolete the use of repeaters in an Ethernet network path.

Suggested Remedy

Change the N to 1857 or N to 1808 (reasonable longword boundary and allow for the same 48 octet private and/or internal header).

Response Response Status W

REJECT.

1982 is not controversial. 802.3 voted in March 2005 33-0 (motion #16) to adopt 2000 octets as the new maximum envelope frame size.

A value of 1857 does not guarantee that all repeater implementations will work.

Cl 03 SC 3.2.7 P 12 L 22 Comment # 114
 John Dallesasse Emcore Corporation

Comment Type E Comment Status A

Text should read "...encapsulation"

Suggested Remedy

Eliminate "s"

Response Response Status C

ACCEPT.

"...encapsulation(s)"

Cl 03 SC 3.2.7 P 12 L 24 Comment # 175
 Grow, Robert Intel

Comment Type ER Comment Status R style

This is a clear case where the Style Guide classifications for NOTE, CAUTION and WARNING are insufficient. While IEEE style defines a CAUTION as something where equipment may be damaged, we have additional system concerns that are different than supported by those definitions. The economic implications of violating this NOTE could cause much greater economic damage or disruption of system function than the loss of a piece of network equipment. For us, damage to data is equally worrisome as is damage to equipment might be for power engineering folk within IEEE.

Suggested Remedy

I believe this should be a caution (even though it doesn't fall within the definition for caution in the IEEE Style Manual).

A request should be made to IEEE staff to reconsider the definition of CAUTION in the IEEE Style Manual. Failing that, an exception for 802.3 should be requested for these cases. It is noted that there are boxed paragraphs in clause 4 on the same basic subject but those are WARNING (something that is supposed to be reserved for risk to life or limb). I would recommend these be converted to CAUTIONs also.

Response Response Status U

REJECT.

NOTE will not be changed to CAUTION.

As a result, the document will remain consistent with the style guide.

Cl 03 SC 3.2.7 P 12 L 25 Comment # 108
 Daines, Kevin World Wide Packets

Comment Type E Comment Status R

Order of 802.1 projects might as well be alphabetical and include the prefix "IEEE".

Suggested Remedy

Change to read: "... IEEE P802.1ad, IEEE P802.1AE, IEEE P802.1ah and MPLS..."

Response Response Status C

REJECT.

This has changed per response to comment 4

IEEE P802.3as Comments

Cl 03 **SC 3.2.7** **P 12** **L 25** **Comment #** 231

Thaler, Pat Agilent Technologies

Comment Type **TR** **Comment Status** **R**

"encapsulation protocol" is used but not defined except by example.

Suggested Remedy

A protocol taht adds a prefix or suffix or both to a frame that is transparent to the MAC Client sending the original client data.

Response **Response Status** **W**

REJECT.

The term is used to reference encapsulation protocols done elsewhere. It is not our goal to define them -- only to give examples of such protocols that may be carried by our envelope frame.

Per response to comment 4, the examples are no longer referenced by project.

Cl 03 **SC 3.2.7** **P 12** **L 25** **Comment #** 6

Agarwal, Puneet Broadcom

Comment Type **TR** **Comment Status** **A**

Term "original client data" is not defined. For example, if I am performing 802.1ad encap followed by the 802.1AE encap on a frame, then what would the "original client data" in the context of 802.1AE mean the 802.1ad encapsulated frame or the pre-802.1ad encapsulated frame?

Suggested Remedy

Please define the term "original client data".

Response **Response Status** **W**

ACCEPT IN PRINCIPLE.

Remove the term "original client data"

Replace:

The original client data is not intended to exceed 1500 bytes, which is its size in the basic frame.

With:

The encapsulation protocols may use up to 482 octets.

Cl 03 **SC 3.2.7** **P 12** **L 25** **Comment #** 4

Agarwal, Puneet Broadcom

Comment Type **TR** **Comment Status** **A**

MPLS is not a protocol controlled by IEEE (and is essentially a Layer 3 protocol) - hence the document should not mention MPLS as it is outside the scope of IEEE 802.

Suggested Remedy

Take out reference to MPLS from this line.

Response **Response Status** **W**

ACCEPT IN PRINCIPLE.

ITU-T SG15 is mentioned in the PAR. The purpose of including a reference to MPLS was to show support for the needs of MPLS encapsulation in addition to 802.1ad, 802.1ah and 802.1AE support.

Change first sentence of note to read:

The envelope frame is intended to allow inclusion of additional prefixes and suffixes required by higher layer encapsulation protocols such as those defined by IEEE 802.1 (such as Provider Bridging and MAC Security) or ITU-T/IETF (such as MPLS).

Cl 03 **SC 3.2.7** **P 12** **L 26** **Comment #** 5

Agarwal, Puneet Broadcom

Comment Type **TR** **Comment Status** **A**

Since it seems that for "envelope" frames, 802.3 has no mechanism to ensure that the "original" client data adheres to the 1500 byte value of N, it may be worth mentioning that the encapsulating protocols (like P802.1ad etc) should enforce the original Client MTU of 1500 octets on their interface to the "original client".

Suggested Remedy

Change line 26, 27, 28 to read as follows after the full stop on line 26:

"Use of these extra octets for other purposes by non IEEE 802 encapsulating protocols is not recommended and strongly discouraged. It is expected that the various 802 encapsulating protocols will specify their own value for the "original client" data size - preferably limited to 1500 octets".

Response **Response Status** **W**

ACCEPT IN PRINCIPLE.

See response to comment 6

IEEE P802.3as Comments

Cl 03 SC 3.2.7 P 12 L 3 Comment # 173
 Grow, Robert Intel
 Comment Type ER Comment Status A
 Inconsistent variable usage.
 Suggested Remedy
 The "n" number of octets should be used consistently. In the text below it is "N". I think it should be a lower case "n" in italics (as it is a variable).
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 144

Cl 03 SC 3.2.7 P 12 L 3 Comment # 225
 Squire, Matt Hatteras Networks
 Comment Type E Comment Status R
 Most of the page uses "N" instead of "n" except for here.
 Suggested Remedy
 Replace "n" with "N"
 Response Response Status C
 REJECT.
 See response to comment 144

Cl 03 SC 3.2.7 P 12 L 3 Comment # 12
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status R
 Everywhere else, "n" is capitalized.
 Suggested Remedy
 Change "n" to "N"
 Response Response Status C
 REJECT.
 See response to comment 144

Cl 03 SC 3.2.7 P 12 L 3 Comment # 92
 Brown, Benjamin Motorola
 Comment Type E Comment Status R
 lowercase "n" used in the text while uppercase "N" used in figure 3-1 and on line 15 and nearly everywhere else this parameter is referenced
 Suggested Remedy
 replace "n" with "N"
 Response Response Status C
 REJECT.
 See response to comment 144

Cl 03 SC 3.2.7 P 12 L 33 Comment # 120
 Dawe, Piers Agilent
 Comment Type TR Comment Status A
 What's maxFrameSize? This quantity does not appear again in P802.3as, and in 802.3am the first occurrence is in 12.4.3.2.5. Is it the same as maxBasicFrameSize?
 Suggested Remedy
 Sort out.
 Response Response Status W
 ACCEPT IN PRINCIPLE.
 maxFrameSize was a typo..

But this sentence is redundant with the previous clause.
 Delete sentence:
 The maximum possible size of the data field is maxFrameSize - (2 × addressSize + 48)/8 octets.

IEEE P802.3as Comments

Cl 03 SC 3.2.8 P 12 L 18 Comment # 150
 Dawe, Piers Agilent

Comment Type ER Comment Status R

The quantity N, as used just twice in 3.2.8 and once in lower case in 3.2.7, has another name (the lower case n in 3.2.9 is different). If it hadn't, you would have needed to make them consistent and put them in italics.

Suggested Remedy

Change these N N and n to clientDataSize.

Response Response Status W

REJECT.

This use of N is as used in the original clause 3.

Other comment responses (189, 144) have deleted the new uses of N.

Cl 03 SC 3.2.8 P 12 L 37 Comment # 122
 Dawe, Piers Agilent

Comment Type E Comment Status A

Editing instruction is wrong. You are actually splitting 3.2.7 into 3.2.7 and 3.2.8 (could formally be an insert), and renumbering following subclauses.

Suggested Remedy

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 81

Cl 03 SC 3.2.8 P 12 L 37 Comment # 81
 Booth, Brad Intel

Comment Type ER Comment Status A

Incorrect editing instruction.

Suggested Remedy

Change editing instruction to read: Insert Pad field as subclause 3.2.8; renumber existing 3.2.8 and 3.2.9 to be 3.2.9 and 3.2.10, respectively. Remove the underline in 3.2.8. Editing instruction for 3.2.10 can be deleted.

Response Response Status W

ACCEPT.

Cl 03 SC 3.2.8 P 12 L 39 Comment # 106
 Daines, Kevin World Wide Packets

Comment Type E Comment Status A

Both PAD and pad are used in clause 3. Since subclause 3.2.8 was extracted from 3.2.7, it makes sense to fix the inconsistency.

Suggested Remedy

pg. 12, line 39: Change "PAD" to "Pad"
 pg. 12, line 49: Change "PAD" to "pad"
 pg. 11, line 48: Change "PAD" to "pad"
 pg. 11, line 50: Change "PAD" to "pad"
 Please scan for other occurrences of "PAD" and fix appropriately.

Response Response Status C

ACCEPT.

Cl 03 SC 3.2.8 P 12 L 49 Comment # 177
 Grow, Robert Intel

Comment Type ER Comment Status A

Why was the case of "n" changed in this move to a new subclause?

Suggested Remedy

Use lower case "n" in italics.

Response Response Status C

ACCEPT.

IEEE P802.3as Comments

CI 03 SC 3.2.8 P 47 L 47 Comment # 121

Dawe, Piers Agilent

Comment Type E Comment Status A

Parts of clauses 3 and 4 use 'implementation' in its usual sense of a (non-unique) way of building something to the standard, and also as a very specific column in a port classification table in 4.4.2. In this case, the implementer has no discretion, so 'parameters of the particular implementation' is misleading.

Suggested Remedy

Here and in 4.4.2, change 'implementation' to something like 'port type', 'port speed' or 'port data rate'. There are about 20 misleading uses of implementation: it may be too much to clean up them all now but I think you can get many of them in the sections you are modifying.

Response Response Status C

ACCEPT IN PRINCIPLE.

In 3.2.8 change last sentence of 1st paragraph to:
...the minimum frame size and address size implementation parameters (see 4.4).

Search for other instances of implementation in clause 3 & 4 and change to 'implementation parameters'

CI 03 SC 3.2.9 P 12 L 52 Comment # 82

Booth, Brad Intel

Comment Type ER Comment Status A

Move editing instruction closer to affected text and remove unchanged text.

Suggested Remedy

Change editing instruction to read: Change 1st paragraph to read as follows. Remove remaining paragraphs in the subclause.

Response Response Status W

ACCEPT IN PRINCIPLE.

Change editing instruction to read:
Change first paragraph of 3.2.8 renumbered to 3.2.9 as follows:
Remove remaining paragraphs in the subclause.

CI 03 SC 3.5 P 13 L 26 Comment # 83

Booth, Brad Intel

Comment Type ER Comment Status R

Editing instruction is sufficient.

Suggested Remedy

Remove the text for 3.5 as the editing instruction is sufficient.

Response Response Status W

REJECT.

Showing deleted text is consistent with guidelines from IEEE style manual and presentation.

CI 03 SC 3.5.4 P 14 L 50 Comment # 148

Dawe, Piers Agilent

Comment Type TR Comment Status R

The 802.3 state machine is entitled to know whether any frame is basic, tagged or envelope (for example it may wish to count too-long frames per 30.3.1.1.25). This document does not define how a receiver can tell these 'three applications' apart. For tagged frames, the information used to be in the stricken 3.5.4. I can't see the information the receiver needs to identify an envelope frame anywhere. A vague and informative note in 3.2.7, really addressing the size of the client data field, is not adequate. In the remedy below, I assume that the length/type field determines the 'application', but lacking the information I'm asking for, I don't know that for a fact.

Suggested Remedy

Expand 3.2.6 with a normative table of types that the 802.3 receiver may recognise.

Response Response Status W

REJECT.

802.3as will not be listing the Types defined by other groups that may map to the basic/tagged/envelope frame formats (e.g., the definition of Qtag is in 802.1Q). This is invisible to the MAC.

IEEE P802.3as Comments

Cl 03 SC 3.8 P 12 L 37 Comment # 176

Grow, Robert Intel
 Comment Type E Comment Status A

Incorrect editing instruction.

Suggested Remedy

This should be "Insert subclause 3.2.8 and renumber following subclauses as required:"
 If accepted, line 52 should also be changed to read: "Change subclause 3.2.8 (renumbered to 3.2.9) as follows:" And, p. 13, l. 22-24 should then be deleted.
 Alternatively, the instruction for 3.2.7 could be changed to "Replace 3.2.7 with the following and renumber subsequent subclauses as required."; with this instruction then deleted.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 81

Cl 03 SC Figure 3-1 P 10 L 38 Comment # 105

Daines, Kevin World Wide Packets
 Comment Type E Comment Status A

The text "clause" is unnecessary.

Suggested Remedy

Remove "clause" to read: "see 3.2.7"

Response Response Status C

ACCEPT.

Cl 04 SC P L Comment # 180

Grow, Robert Intel
 Comment Type E Comment Status A

Most of the changes in Clause 4 and 4A could be significantly reduced in size by referencing paragraphs within a subclause rather than repeating the entire subclause.

Suggested Remedy

Delete unnecessary content from the draft and appropriately enhance editing instructions.

Response Response Status C

ACCEPT IN PRINCIPLE.

This is covered by other comments notably 206

Cl 04 SC P 23 L 5 Comment # 178

Grow, Robert Intel
 Comment Type TR Comment Status A

I think Figure 4-1 and Figure 4-2 belong in 4.3.2 rather than creating a new subclause.

Suggested Remedy

Delete the subclause. Change p. 24, l. 11 to read: The MAC client transmits a frame via an MA_DATA.request or MA_CONTROL.request service primitive as illustrated by Figure 4-1. Service primitives are mapped to the MAC TransmitFrame function as shown in Figure 3-2." (Anchor the figure to the sentence.)
 Replace the exit condition from WAIT_FOR TRANSMIT with MA_DATA.request + MA_CONTROL.request
 Replace the actions part of GENERATE_TRANSMIT_FRAME with function TransmitFrame.
 Replace UCT exit transition from GENERATE_TRANSMIT_FRAME with TransmitStatus
 Change p. 24, l. 27 to read:
 The MAC client receives a frame via an MA_DATA.indication or MA_CONTROL.indication service primitive as illustrated by Figure 4-2. Service primitives are mapped to the MAC ReceiveFrame function as shown in Figure 3-2." (Anchor the figure to the sentence.)
 Replace the exit condition from WAIT_FOR_RX with ReceiveFrame
 Replace the actions part of PASS_TO_CLIENT with if Length/Type = 88 08 hexadecimal then MA_CONTROL.indication else MA_DATA.indication. Replace UCT exit transition from PASS_TO_CLIENT with ReceiveStatus.

Response Response Status C

ACCEPT IN PRINCIPLE.

Move 4.2.11 to 4.3.2.1 with no changes to the state diagram. The commentor is reminded of Fig 2-1.

Move the current 4.3.2 to 4.3.2.2

Also make same changes in Annex 4A

Cl 04 SC 4 P 17 L 26 Comment # 84

Booth, Brad Intel
 Comment Type E Comment Status A

Miscellaneous underline.

Suggested Remedy

Remove the underline in the heading.

Response Response Status C

ACCEPT.

IEEE P802.3as Comments

Cl 04 SC 4.2.11 P 20 L 21 Comment # 129
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 'the state for?'
 Suggested Remedy
 Change to 'the states for'. Similarly in 4A.2.11.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 15

Cl 04 SC 4.2.11 P 23 L 15 Comment # 205
 Marris, Arthur Cadence
 Comment Type T Comment Status R
 Should the MA_DATA.request call contain the parameter fcsPresent? This would make it consistant with the TransmitFrame function. Also TransmitFrame parameters in figure 4-1 do not match those listed on line 29 on page 24. Also check for consistency in naming of fcsPresent. Is it fcsPresent or fcsParamPresent?
 Suggested Remedy
 Consider adding parameter fcsPresent to MA_DATA.request. Also correct parameter list for TransmitFrame in figure 4-1 by adding fcsPresent and lengthOrTypeParam. This would affect other places in the document such as in Annex 4A on page 34. Change fcsPresent to fcsParamPresent.
 Response Response Status C
 REJECT.
 Service primitives are abstract and the presence or absence of a parameter is implicit not explicit.
 See response to comment 211 that addresses the incorrect parameters of these functions.

Cl 04 SC 4.2.11 P 23 L 23 Comment # 211
 Shimon Muller Sun Microsystems, Inc
 Comment Type ER Comment Status A
 In state GENERATE_TRANSMIT_FRAME the TransmitFrame function has incorrect parameters.
 Suggested Remedy
 Change the function call to read as follows:
 "TransmitFrame(destination_address,
 source_address,
 lengthOrType,
 data,
 fcs,
 fcsPresent) : TransmitStatus"
 Same for Annex 4A.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Accept change
 Insert a common set of constants, variables, functions & messages (like in 31.5.3 or 57.3) to define mapping.
 This would likely subsume the NOTES in 4.3.2.

Cl 04 SC 4.2.11 P 23 L 38 Comment # 7
 Alping, Arne Ericsson AB
 Comment Type E Comment Status A
 Figure 4-2: "WAIT FOR RX" in receive state diagram should be renamed to "WAIT FOR RECEIVE" in analogy with "WAIT FOR TRANSMIT" as of transmit state diagram
 Suggested Remedy
 Rename "WAIT FOR RX" to "WAIT FOR RECEIVE"
 Response Response Status C
 ACCEPT.

IEEE P802.3as Comments

CI 04 SC 4.2.11 P 23 L 5 Comment # 88

Booth, Brad Intel

Comment Type E Comment Status R

Underlines not required with inserted text.

Suggested Remedy

Remove underlines.
Same edit applies to 4A.2.11.

Response Response Status C

REJECT.

Superseded by movement of this clause per response to comment 178

CI 04 SC 4.2.11 P 23 L 5 Comment # 232

Thaler, Pat Agilent Technologies

Comment Type TR Comment Status A

The figures look okay but the title and text needs some work - These aren't state diagrams for the MAC Client so MAC Client state diagrams is an inaccurate title. Similarly the text is incorrect (and state diagrams don't "introduce" something, they describe function).

Suggested Remedy

These appear to be state diagrams for the MAC interface to the MAC client. Please describe them that way.
Also applies to 4A.2.11

Response Response Status W

ACCEPT IN PRINCIPLE.

See comment 178

CI 04 SC 4.2.11 P 23 L 8 Comment # 210

Shimon Muller Sun Microsystems, Inc

Comment Type E Comment Status R

Typo.

Suggested Remedy

Insert "diagrams" between "state" and "for".
Same for Annex 4A.

Response Response Status C

REJECT.

This comment was WITHDRAWN by the commenter.

CI 04 SC 4.2.11 P 23 L 8 Comment # 15

Barrass, Hugh Cisco Systems

Comment Type E Comment Status A

This descriptive text doesn't really explain why these diagrams are inserted.

Suggested Remedy

Change "introduce the state for the transmit and receive portions of the MAC client." to "translate the service interface defined in 802.1 and Clause 31 into the format used in this Clause"

Response Response Status C

ACCEPT IN PRINCIPLE.

Split into two:

Fig 4-x specifies the behaviour of the transmit interface from the MAC client.

Fig 4-x specifies the behaviour of the receive interface to the MAC client.

CI 04 SC 4.2.4.2.1 P L Comment # 203

Aniruddha Kundu intel

Comment Type T Comment Status A

The spec adds (section 4.2..4.2.1) that recv. MAC sublayer is allowed to truncate frames longer than etc. etc.. and report this event as an (implementation dependant) error. Why is this implementation dependant term? Why not specify a standards way to report error to station management so that in cases where these frames are being counted in the MIB (clause 30) they become interoperable?

Suggested Remedy

Response Response Status C

ACCEPT IN PRINCIPLE.

30.3.1.1.25 is being updated to support basic/Q-tagged/envelope frames. See response to comment 197

IEEE P802.3as Comments

Cl 04 SC 4.2.4.2.1 P 17 L 28 Comment # 85

Booth, Brad Intel

Comment Type ER Comment Status R

Place editing instruction closer to affected text and remove unchanged text.

Suggested Remedy

Move editing instruction to after the subclause heading. Change instruction to read: Change bullet a) to read as follows. Remove the all other unchanged text in 4.2.4.2.1. Same edit applies to 4A.2.4.2.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

Cl 04 SC 4.2.4.2.1 P 17 L 38 Comment # 189

Gupta, Tanmay Intel Corporation

Comment Type TR Comment Status A

MaxValidFrame does not include MAC addresses, length/type and CRC as per definition on page 18. Maximum Frame Size check should include this.

Suggested Remedy

Either refer to [maxBasicFrameSize | maxBasicFrameSize+qTagPrefixSize | maxEnvelopeFrameSize] or update the definition and all related references.

Response Response Status W

ACCEPT IN PRINCIPLE.

Reword start of paragraph:

"The receiving CSMA/CD sublayer is not required to enforce the frame size limit, but it is allowed to truncate frames longer than [maxBasicFrameSize or maxBasicFrameSize+qTagPrefixSize or maxEnvelopeFrameSize] octets

Also change in Annex 4A

Cl 04 SC 4.2.4.2.1 P 17 L 38 Comment # 123

Dawe, Piers Agilent

Comment Type E Comment Status A

maxValidFrame hasn't been introduced (it used to be in 3.2.6).

Suggested Remedy

Change 'maxValidFrame octets (whose value depends on the application modes supported by the implementation)' to 'maxValidFrame octets (whose value depends on the application modes supported by the implementation: see 4.2.7.1)'. Similarly in 4A.2.4.2.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 189

Cl 04 SC 4.2.4.2.1 P 17 L 38 Comment # 207

Shimon Muller Sun Microsystems, Inc

Comment Type TR Comment Status A

The modified statement regarding the truncation of receivedframes is no longer technically correct. maxValidFrame does not include all the fields in a valid frame. Based on this statement, you could truncate any frame greater than 1500 bytes, and still be compliant with the standard.

Suggested Remedy

Change the beginning of this sentence to read as follows:
 "The receiving CSMA/CD sublayer is not required to enforce the frame size limit, but it is allowed to truncate frames with the MAC client data field longer than maxValidFrame octets..."
 Same for Annex 4A.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 189

IEEE P802.3as Comments

Cl 04 SC 4.2.4.2.1 P 17 L 40 Comment # 13
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

This would be a good opportunity to recommend that frames should never be truncated and then forwarded - as that constitutes "dangerous" behavior.

Suggested Remedy

Add the following sentence at the end of the paragraph:
 "It is recommended that any implementation that truncates frames longer than its maxValidFrame size should invalidate those frames that it has truncated as such truncated frames may have severely weakened CRC protection and may cause serious problems if forwarded to other devices."

Response Response Status C

ACCEPT IN PRINCIPLE.

Add the following CAUTION after bullet a):
 "CAUTION - It is recommended that any implementation that truncates frames should invalidate those frames as they may have severely weakened error protection and may cause serious problems if forwarded to the MAC client."

TF voted 4-1 to make this addition a CAUTION.

Cl 04 SC 4.2.7.1 P 17 L 60 Comment # 86
 Booth, Brad Intel

Comment Type E Comment Status A

Keep editing instruction with associated text.

Suggested Remedy

Move editing instruction to after the heading.

Response Response Status C

ACCEPT.

Cl 04 SC 4.2.7.1 P 18 L 18 Comment # 202
 Kim, Yong Broadcom

Comment Type TR Comment Status A

"maxBasicFrameSize ..implementation-dependent.. see 3.2.7." does not clarify what maxBasicFrameSize means. Don't you mean frames w/ basic payload (1500+18)? Then this is NOT implementation-dependent.

BTW, Delete .4.4 (confusing or no longer the right reference, ditto on line 20).

Suggested Remedy

Please clarify or correct.

Response Response Status W

ACCEPT IN PRINCIPLE.

Delete 'implementation dependent'

Also make change in Annex 4A

Cl 04 SC 4.2.7.1 P 18 L 18 Comment # 124
 Dawe, Piers Agilent

Comment Type T Comment Status A

maxBasicFrameSize is not implementation-dependent. Even with 4.4 using 'implementation' as a term for a port classification, it's a constant. Same for maxEnvelopeFrameSize (and minFrameSize, by the way).

Suggested Remedy

Delete 'implementation-dependent,' three times. Similarly in 4A.2.7.1, and twice in 5.2.4.1.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 202

Cl 04 SC 4.2.7.1 P 18 L 20 Comment # 208
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status R

Typo.

Suggested Remedy

Delete the "4" after "=".
 Same for Annex 4A.

Response Response Status C

REJECT.

It already is crossed out and in red.

However the crossout style will be changed per comment 206

IEEE P802.3as Comments

Cl 04 SC 4.2.7.1 P 18 L 20 Comment # 93
 Brown, Benjamin Motorola
 Comment Type E Comment Status R
 cut and past error?
 Suggested Remedy
 replace "maxEnvelopeFrameSize = 4...;" with "maxEnvelopeFrameSize = ...;"
 This comment also applies to 4A.2.7.1, page 30, line 13
 Response Response Status C
 REJECT.
 See response to comment 208

Cl 04 SC 4.2.7.1 P 18 L 22 Comment # 95
 Brown, Benjamin Motorola
 Comment Type TR Comment Status R
 There is a maxBasicFrameSize and a maxEnvelopeFrameSize but to determine the
 maxTaggedFrameSize an equation is needed: maxBasicFrameSize + qTagPrefixSize
 Suggested Remedy
 Replace the concept of determining maxTaggedFrameSize with an equation by the use of
 a new constant "maxTaggedFrameSize = ...;" to be consistent
 This comment also applies to 4A.2.7.1, page 30, line 16
 Response Response Status W
 REJECT.
 Previous TF debate (January 2005) has determined that this approach was desirable due
 to its affect on current implementations.

Cl 04 SC 4.2.7.1 P 18 L 22 Comment # 125
 Dawe, Piers Agilent
 Comment Type T Comment Status R
 maxEnvelopeFrameSize isn't 4
 Suggested Remedy
 2000. Similarly in 4A.2.7.1.
 Response Response Status C
 REJECT.
 See response to comment 208

Cl 04 SC 4.2.7.1 P 18 L 28 Comment # 126
 Dawe, Piers Agilent
 Comment Type T Comment Status A
 maxValidFrame used to be a constant but no longer, although it might be left in the Pascal
 'const' section.
 Suggested Remedy
 Delete the sentence '. This constant is defined for editorial convenience, as a function of
 other constants'. Similarly in 4A.2.7.1.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 96

Cl 04 SC 4.2.7.1 P 18 L 28 Comment # 209
 Shimon Muller Sun Microsystems, Inc
 Comment Type E Comment Status R
 Inconsistent use of parenthesis types. Also, I believe some parenthesis are missing.
 Suggested Remedy
 Change the statement to read as follows:
 "maxValidFrame = ((maxBasicFrameSize |
 (maxBasicFrameSize + qTagPrefixSize) |
 maxEnvelopeFrameSize) -
 (2 x addressSize + lengthOrTypeSize +
 crcSize) / 8);
 Same for Annex 4A.
 Response Response Status C
 REJECT.
 This comment was WITHDRAWN by the commenter.
 Superseded by 96

IEEE P802.3as Comments

CI 04 SC 4.2.7.1 P 18 L 28 Comment # 127

Dawe, Piers Agilent

Comment Type E Comment Status R

Shouldn't let variable names be split up by hyphen and line break.

Suggested Remedy

Put spaces round the '+' if it helps. Do so anyway for consistency of style. Similarly in 4A.2.7.1.

Response Response Status C

REJECT.

Superseded per response to comment 96

CI 04 SC 4.2.7.1 P 18 L 28 Comment # 94

Brown, Benjamin Motorola

Comment Type TR Comment Status A

New symbol? I think this is the first time I've seen a "|" symbol in this document. I wonder if it should be defined somewhere first?

Suggested Remedy

Either replace "|" with the word "or" or define it somewhere
This comment also applies to 4A.2.7.1, page 30, line 18

Response Response Status W

ACCEPT IN PRINCIPLE.

See response to comment 96

CI 04 SC 4.2.7.2 P 19 L 23 Comment # 25

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

New clause change for "tagged" reference

Suggested Remedy

Change subclause 4.2.7.2 as follows

Change

"ifsStretchSize: 0..(((maxUntaggedFrameSize + qTagPrefixSize) x 8 + headerSize + interFrameSpacing + ifsStretchRatio - 1) div ifsStretchRatio);"

to

"ifsStretchSize: 0..(((maxBasicFrameSize + qTagPrefixSize) or maxEnvelopeFrameSize) x 8 + headerSize + interFrameSpacing + ifsStretchRatio - 1) div ifsStretchRatio);"

At the end of the accompanying note add:

"The maximum size of the counter is determined by the maximum size of frame supported by the system: either (maxBasicFrameSize + qTagPrefixSize) for systems supporting 802.3ac or maxEnvelopeFrameSize for systems supporting 802.3as."

Response Response Status C

ACCEPT IN PRINCIPLE.

Change to:

"ifsStretchSize: 0..((maxEnvelopeFrameSize x 8 + headerSize + interFrameSpacing + ifsStretchRatio - 1) div ifsStretchRatio);"

CI 04 SC 4.2.9 P 19 L 22 Comment # 87

Booth, Brad Intel

Comment Type ER Comment Status A

Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move the change instruction to be before function ReceiveDataDecap and change instruction to read: Change function ReceiveDataDecap to read as follows. Remove all other functions and text from this subclause.
Same edit applies to 4A.2.9.

Response Response Status W

ACCEPT.

IEEE P802.3as Comments

Cl 04 SC 4.2.9 P 20 L 21 Comment # 128

Dawe, Piers Agilent

Comment Type E Comment Status A

Strikeouts and underlines slightly wrong?

Suggested Remedy

Response Response Status C

ACCEPT IN PRINCIPLE.

They are correct, but the style will be changed per the response to comment 206

Cl 04 SC 4.2.9 P 20 L 24 Comment # 14

Barrass, Hugh Cisco Systems

Comment Type E Comment Status A

Now that there are three values "larger" is no longer appropriate

Suggested Remedy

Change "larger" to "largest"

Response Response Status C

ACCEPT.

Cl 04 SC 4.3.2 P 23 L 60 Comment # 89

Booth, Brad Intel

Comment Type ER Comment Status R

Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move editing instruction to be before last paragraph of 4.3.2 and change instruction to read: Change the last paragraph to read as follows. Remove all the other unchanged text from this subclause. Same edit applies to 4A.3.2.

Response Response Status W

REJECT.

Other accepted comments (e.g., 178) are making larger changes to 4.3.2 that will require the entire clause to be retained to show context.

Cl 04 SC 4.3.2 P 24 L 3 Comment # 38

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

With the change to 4.2.11, this section is now misleading.

Suggested Remedy

Change the opening paragraph from:

"The services provided to the MAC client by the MAC sublayer are transmission and reception of frames. The interface through which the MAC client uses the facilities of the MAC sublayer therefore consists of a pair of functions."

to

"The services provided to the MAC client by the MAC sublayer are transmission and reception of frames as defined in Clause 2. For historical reasons the MAC sublayer definitions use two similar but subtly different functions, TransmitFrame and ReceiveFrame defined below. The relationship between these two sets of functions is defined by the MAC client state diagrams in 4.2.11."

Response Response Status C

ACCEPT IN PRINCIPLE.

Editor will use this text as basis for intro text in the merged 4.3.2/4.2.11 per the response to comment 178.

IEEE P802.3as Comments

CI 04 SC 4.3.2 P 25 L 27 Comment # 96

Brown, Benjamin

Motorola

Comment Type TR Comment Status A

maxValidFrame has gained a definition. It has always been used as a constant value of 1500, it "is a constant, regardless of whether the frame is a basic, tagged or envelope frame" (see page 25, line 28). There are numerous places where it still is used this way: page 20, line 58; page 21, line 8; page 25, line 21; page 25, line 27. However, now it is also used to determine whether a packet is too long and should be truncated: page 17, line 38; page 18, line 28. It may be worthwhile to use another variable for this new determination.

Suggested Remedy

on page 17, line 38 and page 18, line 28, replace "maxValidFrame" with "maxFrameLength" or some other suitable variable name
This comment also applies to 4A.3.2, page 36, line 11

Response Response Status W

ACCEPT IN PRINCIPLE.

See response to comment 189

In clauses 1-4 & 4A, rename maxValidFrame -> maxBasicDataSize

Define as:
maxBasicDataSize = 1500;
{In octets, the maximum length of the MAC client data field of the basic frame. }

Also change in Annex 4A

CI 04 SC 4.4.2 P 25 L 38 Comment # 66

Booth, Brad

Intel

Comment Type ER Comment Status R

Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move editing instruction to before the table and change instruction to read: Change table to read as follows. Add an editing instruction before NOTE 6 to read: Insert NOTE 6 after NOTE 5. Remove the remaining unchanged text from the subclause. Remove underlines from NOTE 6.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

CI 04 SC 4.4.2 P 26 L 27 Comment # 233

Thaler, Pat

Agilent Technologies

Comment Type E Comment Status A

The shading crowds the text and makes the tables less easy to read.

Suggested Remedy

Please remove the shading.

Response Response Status C

ACCEPT.

CI 04 SC 4.4.2 P 27 L 13 Comment # 130

Dawe, Piers

Agilent

Comment Type E Comment Status A

Lost a full stop.

Suggested Remedy

Replace full stop at the end of note 5.

Response Response Status C

ACCEPT.

CI 04 SC 4.4.2 P 27 L 13 Comment # 137

Dawe, Piers

Agilent

Comment Type E Comment Status A

There are only two tables in clause 4. This one is very important, and without a table number, hard to refer to.

Suggested Remedy

As a service to humanity, number the two tables in clause 4.

Response Response Status C

ACCEPT.

CI 04 SC 4.4.2 P 27 L 16 Comment # 234

Thaler, Pat

Agilent Technologies

Comment Type T Comment Status A

"likely" is probably too strong. Frame corruption would require a transmitter and receiver that are near opposite edges of the clock tolerance.

Suggested Remedy

Replace "likely" with "possible"

Response Response Status C

ACCEPT.

IEEE P802.3as Comments

Cl 04 SC 4.4.2 P 27 L 16 Comment # 237

Thompson, Geoff Nortel

Comment Type ER Comment Status A

Note 6 should only apply to networks containing half-duplex portions. Fully switched 10 Mb/s networks do not have repeaters

Suggested Remedy

Change to:
NOTE 6: For 10 Mb/s half-duplex implementations, the use of 2000 octet frames is not recommended for use with repeaters, as described in clause 9, as a result of likely frame corruption due to clock skew.

Response Response Status C

ACCEPT.

Cl 04 SC 4.4.2 P 27 L 17 Comment # 16

Barrass, Hugh Cisco Systems

Comment Type E Comment Status A

Although the recommendation of this note is correct, it is overstated to say that frame corruption is "likely."

Suggested Remedy

Change "likely" to "possible"

Response Response Status C

ACCEPT.

Cl 04A SC 4A.2.11 P 33 L 4 Comment # 179

Grow, Robert Intel

Comment Type TR Comment Status A

If Figures 4-1 and 4-2 are relocated as advocated in a separate comment, do the same here.

Suggested Remedy

See comment.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 178

Cl 04A SC 4A.2.11 P 33 L 56 Comment # 19

Barrass, Hugh Cisco Systems

Comment Type E Comment Status A

This descriptive text doesn't really explain why these diagrams are inserted.

Suggested Remedy

Change "introduce the state for the transmit and receive portions of the MAC client." to "translate the service interface defined in 802.1 and Clause 31 into the format used in this Clause"

Response Response Status C

ACCEPT IN PRINCIPLE.

Split into two:

Fig 4A-x specifies the behaviour of the transmit interface from the MAC client.

Fig 4A-x specifies the behaviour of the receive interface to the MAC client.

Cl 04A SC 4A.2.11 P 34 L 30 Comment # 8

Alping, Arne Ericsson AB

Comment Type E Comment Status A

Figure 4-2: "WAIT FOR RX" in receive state diagram should be renamed to "WAIT FOR RECEIVE" in analogy with "WAIT FOR TRANSMIT" as of transmit state diagram

Suggested Remedy

Rename "WAIT FOR RX" to "WAIT FOR RECEIVE"

Response Response Status C

ACCEPT.

Cl 04A SC 4A.2.4.2 P 29 L 41 Comment # 133

Dawe, Piers Agilent

Comment Type T Comment Status A

4.2.4.2.1 uses maxValidFrame while here we have maxValidFrameSize. Looks like this instance is the odd one out.

Suggested Remedy

Change to maxValidFrame.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 96

IEEE P802.3as Comments

Cl 04A SC 4A.2.4.2 P 29 L 41 Comment # 190
 Gupta, Tanmay Intel Corporation
 Comment Type TR Comment Status A
 maxValidFrameSize is undefined. maxValidFrame is defined.
 Suggested Remedy
 Refer to comment 189 for the proper value.
 Response Response Status W
 ACCEPT IN PRINCIPLE.
 See response to comment 189

Cl 04A SC 4A.2.4.2 P 29 L 44 Comment # 17
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 This would be a good opportunity to recommend that frames should never be truncated and then forwarded - as that constitutes "dangerous" behavior.
 Suggested Remedy
 Add the following sentence at the end of the paragraph: "It is recommended that any implementation that truncates frames longer than its maxValidFrame size should invalidate those frames that it has truncated as such truncated frames may have severely weakened CRC protection and may cause serious problems if forwarded to other devices."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 13

Cl 04A SC 4A.2.4.2 P 30 L 16 Comment # 134
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 Should the reference be to 4A?
 Suggested Remedy
 Change 4.4 to 4A.4.
 Response Response Status C
 ACCEPT.

Cl 04A SC 4A.2.7.1 P 30 L 11 Comment # 131
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 macBasic!
 Suggested Remedy
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 maxBasicFrameSize

Cl 04A SC 4A.2.7.1 P 30 L 13 Comment # 132
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 maxEnvelopFrameSize
 Suggested Remedy
 maxEnvelopeFrameSize
 Response Response Status C
 ACCEPT.

Cl 04A SC 4A.2.7.1 P 36 L 14 Comment # 109
 Daines, Kevin World Wide Packets
 Comment Type E Comment Status A
 Missing spaces, unwanted hyphenation
 Suggested Remedy
 Add space to read: "maxBasicFrameSize (for basic frames)"
 Add space to read: "maxEnvelopeFrameSize (for Envelope frames)"
 Toggle hyphenation so terms like "maxEnvelopFrameSize" are not hyphenated.
 Response Response Status C
 ACCEPT.

IEEE P802.3as Comments

Cl 04A SC 4A.2.9 P 32 L 39 Comment # 193
David V James JGG

Comment Type TR Comment Status R

This code seems either to be Pascal-like, which no formal definition, or something else that is undocumented. Neither is OK.

Suggested Remedy

Use a defined language that has compilers, preferably C.

Fix here and throughout.

Response Response Status W

REJECT.

The Pascal in these sections is a small portion of the entire 802.3 standard. Changing from Pascal to C in all 802.3 is out of scope for this project.

Cl 04A SC 4A.2.9 P 32 L 4 Comment # 18
Barrass, Hugh Cisco Systems

Comment Type E Comment Status A

Now that there are three values "larger" is no longer appropriate

Suggested Remedy

Change "larger" to "largest"

Response Response Status C

ACCEPT.

Cl 04A SC 4A.3.2 P 34 L 56 Comment # 135
Dawe, Piers Agilent

Comment Type E Comment Status A

Orphan title

Suggested Remedy

Keep with next

Response Response Status C

ACCEPT.

Cl 04A SC 4A.3.2 P 35 L 1 Comment # 39
Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

With the change to 4A.2.11, this section is now misleading.

Suggested Remedy

Change the opening paragraph from: "The services provided to the MAC client by the MAC sublayer are transmission and reception of frames. The interface through which the MAC client uses the facilities of the MAC sublayer therefore consists of a pair of functions." to "The services provided to the MAC client by the MAC sublayer are transmission and reception of frames as defined in Clause 2. For historical reasons the MAC sublayer definitions use two similar but subtly different functions, TransmitFrame and ReceiveFrame defined below. The relationship between these two sets of functions is defined by the MAC client state diagrams in 4A.2.11."

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comments 38, 178

Cl 04A SC 4A.3.2 P 36 L 14 Comment # 136
Dawe, Piers Agilent

Comment Type E Comment Status A

Some misplaced spaces and a spare full stop

Suggested Remedy

Response Response Status C

ACCEPT.

Cl 04A SC 4A.4.2 P 36 L 18 Comment # 67
Booth, Brad Intel

Comment Type ER Comment Status R

Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move editing instruction to before the table and change instruction to read: Change Table 4A-1 to read as follows. Remove all other unchanged text in the subannex.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

IEEE P802.3as Comments

Cl 04A SC Figure 4-1 P 34 L 22 Comment # 97
 Brown, Benjamin Motorola
 Comment Type E Comment Status A
 Wrong clause in figure title
 Suggested Remedy
 replace "Figure 4-1 & 4-2" with "Figure 4A-1 & 4A-2"
 Response Response Status C
 ACCEPT.

Cl 12 SC 12.9.5 P 51 L 3 Comment # 35
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status R
 New clause change for "1518" reference
 Note that this is a "dead" clause.
 Suggested Remedy
 Add the following at the end of the paragraph starting "Hub Delay Stretch/Shrink":
 Note that frames using the envelope format (see Clause 3) may yield a maximum stretch
 or shrink of 4 BT.
 Response Response Status C
 REJECT.
 This is a deprecated clause that will not be amended.

Cl 3 SC 3.2 P 11 L 28 Comment # 172
 Grow, Robert Intel
 Comment Type ER Comment Status A
 For consistency, the beginning of 3.2 should be changed.
 Suggested Remedy
 3.2 needs to be retitled to:
 "Elements of the MAC packet and data frame"
 Add paragraph:
 Data frame is encapsulated in a packet by the CSMA/CD MAC. This section describes in
 detail the fields of the Ethernet data frame and the additional fields that the MAC creates to
 encapsulate the data frame. These fields are described in order of transmission.
 Response Response Status C
 ACCEPT IN PRINCIPLE.

3.2 needs to be retitled to:
 "Elements of the data frame and packet"
 Add paragraph:
 Data frame is encapsulated in a packet by the CSMA/CD MAC. This section describes in
 detail the fields of the Ethernet data frame and the additional fields that the MAC creates to
 encapsulate the data frame. These fields are described in order of transmission.

Cl 3 SC 3.2.7 P 12 L 24 Comment # 236
 Thompson, Geoff Nortel
 Comment Type ER Comment Status A
 Note refers to a number of projects/standards that I believe have not been added to the
 references, P802.1ad, P802.1ah, P802.1AE and MPLS
 Suggested Remedy
 Add to references.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 These projects have been renamed in response to comment 4

IEEE P802.3as Comments

Cl 30 SC P 41 L Comment # 226
Squire, Matt Hatteras Networks

Comment Type T Comment Status A

There should be a way to read the size of the max valid frame supported by the implementation via management.

Suggested Remedy

Add attribute 30.3.1.1.xx aMaxValidFrameSize ATTRIBUTE APPROPRIATE
SYNTAX: INTEGER BEHAVIOUR DEFINED AS: The maximum valid frame size supported by this implementation as defined in 3.2.7. Values may be 1518 (support for basic frames), 1522 (support for QTagged frames), or 2000 (support for envelop frames).

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 36

Cl 30 SC 30.2.5 P 41 L 26 Comment # 36
Barrass, Hugh Cisco Systems

Comment Type TR Comment Status A

It is necessary to define a MIB object that allows network management entities to discover the frame length capability of devices in the network.

Suggested Remedy

Add a new object into table 30-1a, part of oMACEntity managed object class (30.3.1) "aMaxFrameLength"; ATTRIBUTE ; GET ; (member of "recommended package")
In subclause 30.3.1 add a new object definition in the appropriate place
30.3.1.1.xx aMaxFrameLength
ATTRIBUTE
APPROPRIATE SYNTAX:
An ENUMERATED VALUE that has one of the following entries:
basic frame Capable of supporting maxBasicFrameSize (1518 octet frames)
tagged frame Capable of supporting maxBasicFrameSize + qTagPrefixSize (1522 octet frames)
envelope frame Capable of supporting maxEnvelopeFrameSize (2000 octet frames)
unknown Frame length capability unknown

BEHAVIOUR DEFINED AS:
This indicates the frame length capability of the DTE.

Response Response Status C

ACCEPT IN PRINCIPLE.

Accept remedy except change DTE -> MAC at the end.

The commentor will provide the editor GDMO changes for Annex 30A

Cl 30 SC 30.3 P 41 L 31 Comment # 1
Abbott, John Corning Incorporated

Comment Type E Comment Status R

In 30.3.1.1.25 p. 41 line 31 and 30.4.3.1.8 p.41 line 56, these appear to be a lists with definitions. Is "ATTRIBUTE" part of the list? If so, it should have a definition and appear alphabetically. If "ATTRIBUTE" is the heading of the list, it should appear in a slightly different font, or underlined, or the terms below should be indented for clarity, so that it is clear that it is a heading and not one of the terms in the list.

Suggested Remedy

Items in the list should be alphabetical, with definitions. A heading to the list should be distinguished from the list itself for clarity.

Response Response Status C

REJECT.

This is not a list, it is the GDMO syntax used in clause 30.

Cl 30 SC 30.3.1.1.25 P 41 L 27 Comment # 68
Booth, Brad Intel

Comment Type ER Comment Status R

Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move editing instruction to before the note and change instruction to read: Change the NOTE to read as follows. Remove unchanged text from the subclause.

Response Response Status W

REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

Cl 30 SC 30.3.1.1.25 P 41 L 45 Comment # 110
Daines, Kevin World Wide Packets

Comment Type E Comment Status A

Missing space

Suggested Remedy

Change "maxEnvelopeFrameSize(see" to "maxEnvelopeFrameSize (see"

Response Response Status C

ACCEPT.

IEEE P802.3as Comments

Cl 30 SC 30.4.3.1.8 P 42 L 7 Comment # 20
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status A
 Now that there are three values "larger" is no longer appropriate
 Suggested Remedy
 Change "larger" to "largest"
 Response Response Status C
 ACCEPT.

Cl 30 SC 30.4.3.1.8 P 42 L 7 Comment # 138
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 either value ... larger but now there are three
 Suggested Remedy
 one of the three values ... largest
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 20

Cl 30 SC 30.4.3.1.8 P 42 L 9 Comment # 111
 Daines, Kevin World Wide Packets
 Comment Type T Comment Status A
 The term "MAC" is unnecessary.
 Suggested Remedy
 Change to read "or envelope frame"
 Response Response Status C
 ACCEPT.

Cl 31 SC P 43 L 27 Comment # 184
 Grow, Robert Intel
 Comment Type E Comment Status A
 The editing instructions for the figures should be preceded by the subclause title to which the figures are anchored.
 Suggested Remedy
 See comment
 Response Response Status C
 ACCEPT.

Cl 31 SC P 43 L 28 Comment # 181
 Grow, Robert Intel
 Comment Type ER Comment Status A
 Changes are not marked
 Suggested Remedy
 Alter the instruction to read: "Replace Figure 31-2 with the following:" Note that this could also be done for the Clause 3 figures.
 Response Response Status C
 ACCEPT.

Cl 31 SC P 43 L 40 Comment # 102
 George Claseman Micrel Semiconductor
 Comment Type T Comment Status A
 Figure 31-2 has two instances of 'MA_DATA.request' and 'MA_DATA.indication'.
 Suggested Remedy
 Label the primitives between the Medium Access Control and MAC Control with unique names.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 228

Cl 31 SC P 44 L 12 Comment # 185
 Grow, Robert Intel
 Comment Type E Comment Status A
 Incorrect editing instruction
 Suggested Remedy
 Change to "Replace ..."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 21

IEEE P802.3as Comments

Cl 31 SC P 44 L 26 Comment # 103
 George Claseman Micrel Semiconductor
 Comment Type T Comment Status A
 See figure 31-4.This relates to my comment on page 43. The input and output names should be unique (MA_DATA.indication).
 Suggested Remedy
 Name MA_DATA.indication primitive uniquely (input to MAC control).
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 217

Cl 31 SC P 44 L 31 Comment # 183
 Grow, Robert Intel
 Comment Type E Comment Status A
 Editorial cleanup required on Figure 31-4.
 Suggested Remedy
 Redraw so that transition equations and actions text do not cross transition lines or go outside of state boxes.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 112

Cl 31 SC 31 P 43 L 46 Comment # 21
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status A
 The editing instructions say "Change" but no "changes" are indicated. This is the case for figures 31-2 and 31-4
 Suggested Remedy
 Use correct format (strikethrough and underscore) for the changes in figures 31-2 and 31-4.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change editing instruction to 'replace'
 insert stricken old figures

Cl 31 SC 31 P 44 L 16 Comment # 69
 Booth, Brad Intel
 Comment Type E Comment Status A
 Figure 31-4. Transition statements and state information overruns the lines.
 Suggested Remedy
 Clean up state machine to that transition statements and state information doesn't overrun lines.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 112

Cl 31 SC 31.3 P 43 L 27 Comment # 139
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 Editorials
 Suggested Remedy
 Please include the relevant subclause title (31.3, 31.5.3.5).
 Please include (stricken) the two figures before the changes.
 While you have the figures open for edit, please consider making the font sizes more reasonable: 8 point or greater instead of 7 point.
 Response Response Status C
 ACCEPT.

Cl 31 SC 31.3 P 43 L 36 Comment # 212
 Shimon Muller Sun Microsystems, Inc
 Comment Type E Comment Status A
 The note referenced on Figure 31-2 no longer exists.
 Suggested Remedy
 Delete "(see Note)" in this figure.
 Response Response Status C
 ACCEPT.

IEEE P802.3as Comments

Cl 31 SC 31.3 P 43 L 60 Comment # 40

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31-2 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

Change the following in section 31.3

Change

"The MAC Control sublayer provides a client service interface to the MAC client as specified in Clause 2, and maps these service primitives to those specified in 4.3.2." to "The MAC Control sublayer provides a client service interface to the MAC client as specified in Clause 2, and maps these service primitives to those specified in 4.2.11."

Change

"MA_CONTROL.request primitives generated by MAC Control clients are interpreted by the MAC Control sublayer, and may result in the generation of TransmitFrame function calls to the MAC sublayer..."

to

"MA_CONTROL.request primitives generated by MAC Control clients are interpreted by the MAC Control sublayer, and may result in the generation of MA_DATA.request function calls to the MAC sublayer..."

Change "Based upon the state of the MAC Control sublayer, MA_DATA.request primitives may cause the immediate generation of a TransmitFrame function call to the MAC sublayer, or be delayed, discarded, or modified in order to perform the requested MAC Control function."

to

"Based upon the state of the MAC Control sublayer, MA_DATA.request primitives may cause the immediate generation of a MA_DATA.request function call to the MAC sublayer, or be delayed, discarded, or modified in order to perform the requested MAC Control function."

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 213

Cl 31 SC 31.3 P 43 L 60 Comment # 213

Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing Figure 31-2 has ramifications on the text in 31.3, which implicitly refers to the old diagram.

Suggested Remedy

In the 4-th paragraph (just below the figure) there are two references to the TransmitFrame function. These need to be replaced by a MA_DATA.request primitive to the MAC. In the 5-th paragraph add to the first sentence:

"...via the MA_DATA.indication primitive."

Response Response Status C

ACCEPT.

Cl 31 SC 31.4.1 P 43 L 56 Comment # 182

Grow, Robert Intel

Comment Type TR Comment Status A

The confusion of frame and packet is illustrated here in clause 31 where this is actually a frame format rather than a packet format. In this case, Figure 31-3 only include the fields that are part of a frame, but the figure should be edited with corresponding changes as those accepted for clause 3.

Suggested Remedy

Reconcile to be consistent with and comments accepted and changes made to Clause 3.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 163

Change paragraph of 3.4 from:

MAC Control frames are distinguished from other MAC frames only by their Length/Type field identifier.

To:

MAC Control frames are distinguished from other data frames only by their Length/Type field identifier.

IEEE P802.3as Comments

Cl 31 SC 31.5 P 43 L 60 Comment # 214
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing Figure 31-2 has ramifications on the text in 31.5, which implicitly refers to the old diagram.

Suggested Remedy

Replace the text in 31.5 with the following:
 "The MAC passes to the MAC Control sublayer all valid frames via the MA_DATA.indication primitive. Invalid frames, are not passed to the MAC Control sublayer (see 3.4)."

Response Response Status C

ACCEPT.

Cl 31 SC 31.5.2 P 43 L 60 Comment # 215
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing Figure 31-2 has ramifications on the text in 31.5.2, which implicitly refers to the old diagram.

Suggested Remedy

Replace the first two sentences of 31.5.2 with the following:
 "Validly received MAC Control frames are further parsed to determine the opcode. The location of the opcode within a valid MAC Control frame and its format are specified in 31.4.1.4 and Figure 31-3."

Response Response Status C

ACCEPT.

Cl 31 SC 31.5.3.3 P 44 L 1 Comment # 216
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing the state diagram on Figure 31-4 has ramifications on its supporting text in 31.5.3.3.

Suggested Remedy

Delete subclause 31.5.3.3, and renumber the following sub-clauses.

Response Response Status C

ACCEPT.

Cl 31 SC 31.5.3.4 P 44 L 1 Comment # 217
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing the state diagram on Figure 31-4 has ramifications on its supporting text in 31.5.3.4.

Suggested Remedy

- Delete the definition of MA_CONTROL.indication. It is no longer used in the state diagram.
- Replace the definition of MA_DATA.indication as follows: "The service primitive used to pass a validly received frame between the MAC and the MAC Control sublayers, or between the MAC Control sublayer and the MAC client. When generated by the MAC sublayer, this message is used by the MAC Control Receive state diagram as the condition for transition between WAIT_FOR_RX and CHECK_TYPE states. While in the PASS_TO_CLIENT state, the MAC Control Receive state diagram generates this message to the MAC client."

Response Response Status C

ACCEPT.

Cl 31 SC 31.5.3.5 P 44 L 30 Comment # 218
 Shimon Muller Sun Microsystems, Inc

Comment Type E Comment Status A

There is no need to spell out "Generate" while you are in a given state. It is implied by state diagram conventions.

Suggested Remedy

Delete "Generate" is state PASS_TO_CLIENT.

Response Response Status C

ACCEPT.

Cl 31 SC Figure 31-4 P 44 L 30 Comment # 112
 Daines, Kevin World Wide Packets

Comment Type E Comment Status A

Text spills out of boxes. Could be font size issue. Best approach is to widen boxes to prevent this from happening.

Suggested Remedy

Per comment.

Response Response Status C

ACCEPT.

IEEE P802.3as Comments

Cl 31B SC P L Comment # 151
 Wael William Diab Cisco
 Comment Type E Comment Status A
 Bookmarks are broken and show 43B as part of 31B
 Suggested Remedy
 Please fix
 Response Response Status C
 ACCEPT.

Cl 31B SC P 46 L 12 Comment # 186
 Grow, Robert Intel
 Comment Type E Comment Status A
 Incorrect editing instruction
 Suggested Remedy
 Change to "Replace ..."
 Response Response Status C
 ACCEPT.

Cl 31B SC P 46 L 50 Comment # 104
 George Claseman Micrel Semiconductor
 Comment Type T Comment Status A
 See figure 31B-1. In SEND CONTROL FRAME and SEND DATA FRAME, MA_DATA.request should have a unique name. See my previous comments on unique names into and out of the MAC Control sublayer.
 Suggested Remedy
 Make MA_DATA.request name unique.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Modify Fig 31-2 and state diagram adding MAC: and MCF: prefixes.
 Similar to response to comment 228

Cl 31B SC 31B P 46 L 18 Comment # 192
 David V James JGG
 Comment Type TR Comment Status R
 State machine names should have an underscore, not spaces. The other ones were OK, but this one is not.
 Suggested Remedy
 Fix it, here and check throughout.
 Response Response Status W
 REJECT.

Cl 31B SC 31B P 46 L 28 Comment # 70
 Booth, Brad Intel
 Comment Type E Comment Status A
 Figure 31B-1. Right justify the two leftmost transition statements.
 Suggested Remedy
 As per comment.
 Response Response Status C
 ACCEPT.

Cl 31B SC 31B P 46 L 29 Comment # 22
 Barrass, Hugh Cisco Systems
 Comment Type E Comment Status A
 The editing instructions say "Change" but no "changes" are indicated.
 Suggested Remedy
 Use correct format (strikethrough and underscore) for the changes in figure 31B-1
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment 140

IEEE P802.3as Comments

Cl 31B SC 31B.3.1 P 46 L 5 Comment # 41
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31B-1 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

Change the following in section 31B.3.1
 Change 2 instances of
 "the MAC Control sublayer calls the MAC sublayer TransmitFrame function with the following parameters:"
 to
 "the MAC Control sublayer calls the MAC sublayer MA_DATA.request function with the following parameters:"
 For both instances of bullet a) change "destinationParam" to "destination_address"
 For both instances of bullet b) change "sourceParam" to "source_address"
 For the first bullet c) change
 "The lengthOrTypeParam is set to the reserved IEEE 802.3 MAC Control type value specified in 31.4.1.3."
 to
 "The length/type field (i.e. the first two octets) within the mac_service_data_unit parameter is set to the reserved IEEE 802.3 MAC Control type value specified in 31.4.1.3."
 For the first bullet d) change
 "The dataParam is set equal to the concatenation of the PAUSE opcode encoding (see Annex 31A), the pause_time request_operand specified in the MA_CONTROL.request primitive, and a field containing zeros of the length specified in 31.4.1.6."
 to
 "The remainder of the mac_service_data_unit is set equal to the concatenation of the PAUSE opcode encoding (see Annex 31A), the pause_time request_operand specified in the MA_CONTROL.request primitive, and a field containing zeros of the length specified in 31.4.1.6."
 For the first bullet e) change "The fcsParamPresent is set to false."
 to
 "The frame_check_sequence is omitted."
 Replace second bullets c) and d) with a new c) bullet
 "The mac_service_data_unit is set equal to the mac_service_data_unit parameter of the MA_DATA.request primitive."

Response Response Status C
 ACCEPT IN PRINCIPLE.

See comment 221 for additional edits

Cl 31B SC 31B.3.2.2 P 46 L 3 Comment # 44
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31B-1 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

In the definition of the variable transmission_in_progress, change "TransmitFrame" to "MA_DATA.request"

Response Response Status C
 ACCEPT IN PRINCIPLE.

See comment 221 for additional edits

Cl 31B SC 31B.3.2.3 P 46 L 5 Comment # 42
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31B-1 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

Change "TransmitFrame" to "MA_DATA.request"

Response Response Status C
 ACCEPT IN PRINCIPLE.

See comment 221 for additional edits

IEEE P802.3as Comments

Cl 31B SC 31B.3.2.6 P 46 L 1 Comment # 221
 Shimon Muller Sun Microsystems, Inc

Comment Type ER Comment Status A

Changing the state diagram on Figure 31B-1 has ramifications on its supporting text in multiple places.

Suggested Remedy

- I ran out of steam here, so I am giving the editor editorial license of what the precise changes should be. Following are the locations in the original text that require changes:
- Subclause 31B.3.1 requires a major rewrite. It is based on using the TransmitFrame function and of all its associated parameters in the state diagram. Need to convert the entire text to comply with the MA_DATA.request semantics.
 - Delete 31B.3.2.3, and renumber the following subclauses.
 - In subclause 31B.3.2.5 need to expand the definition of MA_DATA.request. It is used by the MAC client to request data transmission from MAC Control, but it is also used by MAC Control to request both data and control frames' transmission from the MAC. Also, need to specify the context of its use in the state diagram, similar to what I suggested for Figure 31-4.
 - Subclause 31B.3.4.2:
 - Uses the ReceiveFrame function in the DA definition.
 - Uses the TransmitFrame function in the transmission_in_ progress definition.
 - Subclause 31B.3.7: uses TransmitFrame function in the 2-nd paragraph.

*** There may be more that I missed both here and in clause 31. Also, I am not sure that I was looking at the final version on the master document. An independent sanity check is strongly encouraged.

Response Response Status C
 ACCEPT IN PRINCIPLE.

The editor will do his best.

Cl 31B SC 31B.3.2.6 P 46 L 15 Comment # 222
 Shimon Muller Sun Microsystems, Inc

Comment Type TR Comment Status A

As part of the changes to the state diagram on Figure 31B-1, the HALT TX state has been eliminated. I am not sure what the motivation for that is, but there was actually a good reason why I put it in there in the first place. Consider the following scenario:

- * At the beginning of time the MAC is initialized and put on-line. In order for the MAC client to be able to send the first frame, we need to initialize the pause_timerDone variable to true in INITIALIZE TX, so that we can proceed to PAUSED and TRANSMIT READY and wait for the frame from the MAC client.
- * At some point later, let's assume that a pause frame was received with a non-zero value for n_quanta_rx. This will rearm the pause_timer and will force the pause_timerDone variable to false. For a fast network and a long link, the timer value can be very large.
- * Now let's assume that during the time that the pause_timer is doing its thing, we want to disable the MAC (change a programmable value while the MAC is off-line) and then we enable it again. All this before the pause time expired.
- * Based on the new state diagram, we will re-initialize the pause_timerDone variable to true, and if the MAC client has a frame ready to go, we will send it out before the pause time has expired, in violation of the standard.

The underlying assumption here is that transmitEnabled is not necessarily the same as reset. Also, we used the generic BEGIN rather than reset, so that we can imply that as part of the BEGIN sequence there will be a transmitEnabled at some point.

Suggested Remedy

Reinstate the HALT TX state.

Response Response Status C
 ACCEPT.

Cl 31B SC 31B.3.2.6 P 46 L 30 Comment # 219
 Shimon Muller Sun Microsystems, Inc

Comment Type E Comment Status A

The new state diagram uses the constant "reserved_mc_address" rather than the original "reserved_multicast_address", which is what is defined in 31B.3.2.1.

Suggested Remedy

Reconcile the two in four places in the state diagram. My preference is "reserved_multicast_address".

Response Response Status C
 ACCEPT.

IEEE P802.3as Comments

Cl 31B SC 31B.3.2.6 P 46 L 49 Comment # 220
 Shimon Muller Sun Microsystems, Inc

Comment Type E Comment Status A

There is no need to spell out "Generate" while you are in a given state. It is implied by state diagram conventions.

Suggested Remedy

Delete "Generate" in two places (states SEND_CONTROL_FRAME and SEND_DATA_FRAME).

Response Response Status C
 ACCEPT.

Cl 31B SC 31B.3.3 P 46 L 9 Comment # 140
 Dawe, Piers Agilent

Comment Type E Comment Status A
 Editorials

Suggested Remedy

Please include the relevant subclause title (31B.3.3).
 Please include (stricken) the figure before the changes.
 While you have the figure open for edit, please consider using 8 point font instead of 7 point.

Response Response Status C
 ACCEPT.

Cl 31B SC 31B.3.4.2 P 46 L 3 Comment # 45
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31B-1 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

In the definition of the variable transmission_in_progress, change "TransmitFrame" to "MA_DATA.request".

Response Response Status C
 ACCEPT IN PRINCIPLE.

See comment 221 for additional edits

Cl 31B SC 31B.3.7 P 46 L 3 Comment # 43
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

Figure 31B-1 is changed but the accompanying text has been left. This would result in contradictions and meaningless sections of text in the draft.

Suggested Remedy

In the second paragraph, change "TransmitFrame" to "MA_DATA.request".

Response Response Status C
 ACCEPT IN PRINCIPLE.

See comment 221 for additional edits

Cl 43 SC 43.4.2.2 P 47 L 1 Comment # 26
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

New clause change for "tagged" reference

Suggested Remedy

Change subclause 43.4.2.2 as follows
 Change "they shall not be tagged" to "they shall not be tagged or envelope format frames"

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 43.4.2.2 as follows
 Change "they shall not be tagged" to "they shall not be Q-tagged frames or envelope frames"

Cl 43 SC 43.7.15 P 47 L 1 Comment # 28
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

New clause change for "tagged" reference

Suggested Remedy

Change subclause 43.7.15 as follows
 Change "Not tagged" to "Not tagged or envelope format"

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 43.7.15 as follows
 Change "Not tagged" to "Not Q-tagged frames or envelope frames"

IEEE P802.3as Comments

Cl 43 SC 43.7.23 P 47 L 1 Comment # 29
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A
 New clause change for "tagged" reference

Suggested Remedy

Change subclause 43.7.23 as follows
 Change "Not tagged" to "Not tagged or envelope format" for 2 references (FP4, FP5)

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 43.7.23 as follows
 Change "Not tagged" to "Not Q-tagged frames or envelope frames" for 2 references (FP4, FP5)

Cl 43B SC 43B.2 P 47 L 32 Comment # 71
 Booth, Brad Intel

Comment Type ER Comment Status R
 Keep editing instruction closer to affect text and remove unchanged text.

Suggested Remedy

Move editing instruction to before bullet d) and change instruction to read: Change bullet d) to read as follows. Remove the remaining unchanged text from this subannex.

Response Response Status W
 REJECT.

The current text gives a clearer view of the change and its context.

Also see response to comment 206.

Cl 43B SC 43B.2 P 47 L 55 Comment # 188
 Grow, Robert Intel

Comment Type ER Comment Status A
 Use complete defined names

Suggested Remedy

Change to read "...shall not be tagged frames or envelope frames ..."

Response Response Status C
 ACCEPT IN PRINCIPLE.

See resolution to comment 113

Cl 43B SC 43B.6.2.3 P 48 L 6 Comment # 30
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A
 New clause change for "tagged" reference

Suggested Remedy

Change subclause 43B.6.2.3 as follows
 Change "Not tagged" to "Not tagged or envelope"

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 43B.6.2.3 as follows
 Change "Not tagged" to "Not Q-tagged or envelope"

Cl 45 SC 43.5.3.2 P 47 L 1 Comment # 27
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A
 New clause change for "tagged" reference

Suggested Remedy

Change subclause 43.5.3.2 as follows
 Change "they shall not be tagged" to "they shall not be tagged or envelope format frames"

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 43.5.3.2 as follows
 Change "they shall not be tagged" to "they shall not be Q-tagged frames or envelope frames"

Cl 57 SC 57.3.3 P 50 L 33 Comment # 31
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status A
 New clause change for "tagged" reference

Suggested Remedy

Change subclause 57.3.3 as follows
 Change "cannot be tagged" to "cannot be tagged or envelope format"

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change subclause 57.3.3 as follows
 Change "cannot be tagged" to "cannot be Q-tagged frame or envelope frame"

IEEE P802.3as Comments

Cl 57 SC 57.3.3.2 P 49 L 27 Comment # 46
 Barrass, Hugh Cisco Systems

Comment Type T Comment Status R
 The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy
 Change
 "(i.e., the MAC's TransmitFrame function is synchronous, and is never interrupted)"
 to
 "(i.e., the MAC's MA_DATA.request function is synchronous, and is never interrupted)"

Response Response Status C
 REJECT.

It is the function that is being referred to and not the interlayer interface.

Cl 57 SC 57.4.2 P 49 L 27 Comment # 72
 Booth, Brad Intel

Comment Type E Comment Status A
 Keep editing instruction closer to affect text.

Suggested Remedy
 Move editing instruction below the subclause header.

Response Response Status C
 ACCEPT.

Cl 57 SC 57.4.2 P 49 L 31 Comment # 187
 Grow, Robert Intel

Comment Type ER Comment Status A
 Use complete defined names

Suggested Remedy
 Change to read "...shall not be tagged frames or envelope frames ..."

Response Response Status C
 ACCEPT IN PRINCIPLE.

See resolution to comment 113

Cl 57 SC 57.4.2 P 49 L 32 Comment # 73
 Booth, Brad Intel

Comment Type E Comment Status A
 Missing a period.

Suggested Remedy
 Add a period after "Figure 57-9."

Response Response Status C
 ACCEPT.

Cl 57 SC 57.4.2 P 49 L 32 Comment # 141
 Dawe, Piers Agilent

Comment Type E Comment Status A
 Lost a full stop.

Suggested Remedy
 Replace full stop at end of sentence.

Response Response Status C
 ACCEPT.

Cl 57 SC 57.5.2.1 P 50 L 1 Comment # 143
 Dawe, Piers Agilent

Comment Type T Comment Status A
 This sentence doesn't make sense to me 'The minimum value is minFrameSize / 8.'
 Minimum value of what? This is my attempt at guessing a meaning for this paragraph.
 (Editorial: can get rid of some unnecessary capitals 'Maximum' and 'Size')

Suggested Remedy
 Prior to exchanging and agreeing upon a maximum OAMPDU size, a DTE sends [a
 number, probably not 512] OAMPDUs with size between minFrameSize / 8 and
 maxBasicFrameSize octets, inclusive. maxBasicFrameSize is defined in 4.4.2.

Response Response Status C
 ACCEPT IN PRINCIPLE.

Change paragraph to:

Prior to exchanging and agreeing upon a Maximum OAMPDU Size, a
 DTE sends OAMPDUs of length minFrameSize / 8.
 The minimum value of this field is
 minFrameSize / 8. The maximum value of this field is equal to
 maxBasicFrameSize, which is defined in
 4.4.2.

IEEE P802.3as Comments

Cl 57 SC 57.5.2.1 P 50 L 1 Comment # 142
 Dawe, Piers Agilent
 Comment Type E Comment Status A
 Please include the relevant subclause title (57.5.2.1).
 Suggested Remedy
 per comment
 Response Response Status C
 ACCEPT.

Cl 61 SC 61.1.4.1 P 50 L 60 Comment # 64
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 New clause change for frame length.
 There is an implied frame buffer in the Clause 61 PCS. In the transmit direction, it allows the MAC-PHY rate matching to operate; in the receive direction, it allows the PAF to reassemble frames from fragments.
 Suggested Remedy
 Add a paragraph at the end of the subclause:
 Note: the MAC_PHY rate matching function and PME Aggregation function both require some form of frame buffer for many implementations. It is recommended that these frame buffers should be sized to accommodate the longest frame format as defined in 3.1 (i.e. "envelope frame format," 2000 bytes).
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add a NOTE at the end of the subclause:
 NOTE: the MAC_PHY rate matching function and PME Aggregation function both require some form of frame buffer for many implementations. It is recommended that these frame buffers should be sized to accommodate maximum length envelope frames (see 3.2.7).

Cl 61 SC 61.2.2.7.3 P 51 L 1 Comment # 32
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 New clause change for "tagged" reference
 Suggested Remedy
 Change subclause 61.2.2.7.3 as follows
 Change "(i.e. maxUntaggedFrameSize + qTagPrefixSize, currently 1522 octets (see 3.5, 4.2.7.1 and 4.4))" to "(i.e. maxUntaggedFrameSize + qTagPrefixSize or maxEnvelopeFrameSize, currently 1522 or 2000 octets (see 3.5, 4.2.7.1 and 4.4))"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change subclause 61.2.2.7.3 as follows:
 ...and would cause the frame size to exceed the maximum supported frame size (see 4.2.4.2.1) then the first part of the frame, . . .

Cl 64 SC P 46 L 15 Comment # 98
 Brown, Benjamin Motorola
 Comment Type TR Comment Status A
 You forget multi point mac control
 Suggested Remedy
 Modify clause 64
 Response Response Status W
 ACCEPT IN PRINCIPLE.
 Modifications to include MA_DATA.request & MA_DATA.indication service primitives as in Fig 31B-1 required for Fig 64-10, 11, 12, 13
 See responses to comments 53 & 54

IEEE P802.3as Comments

Cl 64 SC 64.1.3 P 50 L 60 Comment # 47

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Change figure 64.3 (2 instances)
 "TransmitFrame(DA, SA, Length/Type, data)"
 to
 "MA_DATA.request(DA, SA, data)"
 Change figure 64.3
 "ReceiveFrame(DA, SA, Length/Type, data)"
 to
 "MA_DATA.indication(DA, SA, data)"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.2.1 P 50 L 60 Comment # 48

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Change 5 instances of "ReceiveFrame" to "MA_DATA.indication"
 Change "TransmitFrame" to "MA_DATA.request"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.2.2 P 50 L 60 Comment # 51

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-8, change "TransmitFrame(DA, SA, Length/Type, data)" to
 "MA_DATA.request(DA, SA, data)"
 and
 change "NOTE-TransmitFrame" to "NOTE-MA_DATA.request"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.2.2 P 50 L 60 Comment # 49

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-6, change "ReceiveFrame(DA, SA, Length/Type, data)" to
 "MA_DATA.indication(DA, SA, data)"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.2.2 P 50 L 60 Comment # 50

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-7, change "TransmitFrame(DA, SA, Length/Type, data)" to
 "MA_DATA.request(DA, SA, data)"
 and
 change "NOTE—TransmitFrame" to "NOTE—MA_DATA.request"
 In the body of the clause, change "...a single TransmitFrame is generated for
 transmission." to "...a single MA_DATA.request is generated for transmission."

Response Response Status C

ACCEPT.

Also see response to comment 98

IEEE P802.3as Comments

Cl 64 SC 64.2.2.4 P 50 L 60 Comment # 52

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Change "ReceiveFrame(DA, SA, Length/Type, data)" to "MA_DATA.indication(DA, SA, data)"

Change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.2.2.7 P 50 L 60 Comment # 54

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-12 and 64-13, change "TransmitFrame(DA, SA, Length/Type, data_tx)" to "MA_DATA.request(DA, SA, data_tx) (2 instances)"

Response Response Status C

ACCEPT IN PRINCIPLE.

Accept remedy.

Editor will also check text descriptions about the state diagrams

Cl 64 SC 64.2.2.7 P 50 L 60 Comment # 53

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-10 and 64-11, change "ReceiveFrame(DA, SA, Length/Type, data):receiveStatus" to "MA_DATA.indication(DA, SA, data_rx, receiveStatus)"

Response Response Status C

ACCEPT IN PRINCIPLE.

Accept remedy

Editor will also check text descriptions about the state diagrams

Cl 64 SC 64.3.3 P 50 L 60 Comment # 55

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-15, 64-16 and 64-17 change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.3.3.3 P 50 L 60 Comment # 56

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Change "ReceiveFrame(DA, SA, Length/Type, data)" to "MA_DATA.indication(DA, SA, data)"
Change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"

Response Response Status C

ACCEPT.

Also see response to comment 98

Cl 64 SC 64.3.3.6 P 50 L 60 Comment # 57

Barrass, Hugh Cisco Systems

Comment Type T Comment Status A

The changes to Clause 2.1 must be reflected throughout the document.

Suggested Remedy

Figure 64-18, 64-20, 64-21 (2 instances) and 64-22 (4 instances) change "TransmitFrame(DA, SA, Length/Type, data_tx)" to "MA_DATA.request(DA, SA, data_tx)"

Response Response Status C

ACCEPT.

Also see response to comment 98

IEEE P802.3as Comments

Cl 64 SC 64.3.4 P 50 L 60 Comment # 58
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Figure 64-23 change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"
Response Response Status C
ACCEPT.
Also see response to comment 98

Cl 64 SC 64.3.4.3 P 50 L 60 Comment # 59
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"
Response Response Status C
ACCEPT.
Also see response to comment 98

Cl 64 SC 64.3.4.3.6 P 50 L 60 Comment # 60
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Figure 64-25 change "TransmitFrame(DA, SA, Length/Type, data_tx)" to "MA_DATA.request(DA, SA, data_tx)" (2 instances)
Response Response Status C
ACCEPT.
Also see response to comment 98

Cl 64 SC 64.3.5 P 50 L 60 Comment # 61
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Figure 64-26 change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"
Response Response Status C
ACCEPT.
Also see response to comment 98

Cl 64 SC 64.3.5.3 P 50 L 60 Comment # 62
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Change "TransmitFrame(DA, SA, Length/Type, data)" to "MA_DATA.request(DA, SA, data)"
Response Response Status C
ACCEPT.
Also see response to comment 98

Cl 64 SC 64.3.5.6 P 50 L 60 Comment # 63
Barrass, Hugh Cisco Systems
Comment Type T Comment Status A
The changes to Clause 2.1 must be reflected throughout the document.
Suggested Remedy
Figure 64-27 change "TransmitFrame(DA, SA, Length/Type, data_tx)" to "MA_DATA.request(DA, SA, data_tx)" (2 instances)
Response Response Status C
ACCEPT.
Also see response to comment 98

IEEE P802.3as Comments

Cl 64 SC 64.3.6 P 51 L 2 Comment # 33
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 New clause change for "tagged" reference
 Suggested Remedy
 Change subclause 64.3.6 as follows
 Change "they shall not be tagged" to "they shall not be tagged or envelope format frames"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change subclause 64.3.6 as follows
 Change "they shall not be tagged" to "they shall not be Q-tagged frames or envelope frames"

Cl 64 SC 64.4.4.4 P 51 L 2 Comment # 34
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 New clause change for "tagged" reference
 Suggested Remedy
 Change subclause 64.4.4.4 as follows: Change "not tagged" to "not tagged or envelope format"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change subclause 64.4.4.4 as follows
 Change "not tagged" to "not Q-tagged frames or envelope frames"

Cl 65 SC 65.2.2.1 P 50 L 60 Comment # 65
 Barrass, Hugh Cisco Systems
 Comment Type T Comment Status A
 New clause change for frame length.
 There is an implied frame buffer in the Clause 65 (Burst mode and FEC) PCS. The transmit buffer accommodates a frame or frames waiting for transmission and the receive buffer accommodates a frame or frames while the FEC code is checked. Additionally, the number of FEC blocks in a frame changes from 7 for a 1522 byte frame to 9 for a 2000 byte frame.
 Suggested Remedy
 Add a paragraph at the end of the subclause:
 Note: Many implementations of the transmit and receive buffers might be dependant on the maximum length of frame supported. It is recommended that these frame buffers should be sized to accommodate the longest frame format as defined in 3.1 (i.e. "envelope frame format," 2000 bytes). It is also recommended that the FEC function should accommodate the longest frame format, requiring up to 9 FEC code blocks per frame.

Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add a NOTE at the end of the subclause:
 NOTE: Many implementations of the transmit and receive buffers might be dependant on the maximum length of frame supported. It is recommended that these frame buffers should be sized to accommodate maximum length envelope frames (see 3.2.7). It is also recommended that the FEC function should accommodate maximum length envelope frames, requiring up to 9 FEC code blocks per frame.

Cl 99 SC P 2 L 1 Comment # 154
 Grow, Robert Intel
 Comment Type ER Comment Status A front matter
 Needs more complete front matter for Sponsor Ballot.
 Suggested Remedy
 To be provided by the WG Chair prior to Sponsor ballot.
 Response Response Status W
 ACCEPT IN PRINCIPLE.
 Editor awaiting front matter from 802.3 chair

IEEE P802.3as Comments

Cl **99** SC **99** P **1** L **25** Comment # **115**

Dawe, Piers Agilent

Comment Type **E** Comment Status **A**

'extends the size of the IEEE 802.3 frame format' sort of: three formats rather than two.
But isn't the headline fact that the frame itself can be bigger?

Suggested Remedy

Suggest change to 'extends the size of the IEEE 802.3 frame with an envelope frame format to'.

Response Response Status **C**

ACCEPT.

Cl **All** SC **All** P **All** L **All** Comment # **206**

Shimon Muller Sun Microsystems, Inc

Comment Type **ER** Comment Status **A**

I find the editing instructions very confusing. Although I am quite familiar with the text of these clauses, I had real problems trying to parse the proposed changes and figuring out what the final text is.
Furthermore, from my fairly recent experience as the editor of these clauses, I found out (in a very painful way) that the IEEE editors tend to have trouble figuring out how to merge the changes in these clauses into the master document. This is particularly true for the Pascal code. Therefore, I believe the editing instructions should be very crisp and unambiguous.

Suggested Remedy

Unless the change is very straightforward (such as adding or deleting an entire sentence), I would suggest the following:

- In the text:
Rather than do piecemeal insertion and deletion of words and characters, strike the entire paragraph and insert a new paragraph right below it with the new text.
 - In the Pascal code:
If you are changing a Pascal statement, strike the entire statement and insert a new one right below it with the new text.
- I understand that this is quite a bit of work for the editor, but I believe that this will save us a lot of grief in the future.

Response Response Status **C**

ACCEPT IN PRINCIPLE.

Editor will take into account text & Pascal comments.

Most text editorial changes noted in responses to comments 72, 76, 81, 82, 86 & 87