

IEEE P802.3ar D1.0 Congestion Management Comments

Cl 04 SC 4.1 P55 L01 # 11
 Dawe, Piers Avago Technologies

Comment Type E Comment Status A

Another project, another MAC option. Even the streamlined 4A is gaining an option. It's time we added a table of what the options are: it's too hard to try to disentangle this information from the 130-page Clause 30. I would like to see something like a PICS added. I'm not so much concerned that it be a checkable form, but that there be a clear, simple table. It could go in 4.1 or 4.4. I am aware that 'a PICS has never been defined for the MAC. This has been the case despite the addition of full-duplex mode, frame bursting capability, deference (4A), 802.1 Qtags, IPG stretching, etc.' Also speed, CRC generation, envelope frame capability, 1G bursting. With each addition, the need for a table becomes greater.

SuggestedRemedy

Please add a table of MAC options within Clause 4. Please add a table of MAC options within Clause 4A.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

This seems like a good idea (service to humanity).

Some members of the 802.3as and 802.3ar Task Forces suggested that a new informative annex (Annex 4B) could be created to summarize MAC options. However, such a change would be beyond the scope of either Task Force and would require the mandate of the WG.

The editor has "volunteered" to work with the commenter to prepare a short proposal for review during the 802.3 Plenary.

Cl 04A SC 4A.2.3.2.2 P 10 L 28 # 1
 Gupta, Tanmay Intel Corporation

Comment Type E Comment Status R

A larger value for interframe spacing ""is"" used for controlling the nominal data rate of the MAC sublayer
 ""is"" does not imply optional

SuggestedRemedy

replace ""is"" by ""may be""

Proposed Response Response Status C

REJECT.

The use of the simple present tense for this (and other) sentences is descriptive, it does not imply mandatory or optional. Changing this to "may be" would be inconsistent with the other sentences; changing all of them to the conditional form would be ugly.

There is an explicit statement that the mechanism is optional.

Cl 04A SC 4A.2.7.2 P10 L38 # 2
 Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

Units of txAdditionalInterFrameSpacing need to be mentioned

SuggestedRemedy

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Add "in bit times," to definition for txAdditionalInterFrameSpacing (consistent with existing Clause 4A.2.7.2).

Cl 04A SC 4A.2.7.2 P10 L39 # 3
 Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

In txFrameRateControlTimer and txFrameRateControlStart use the term RateControl. If the name of the mechanism is FrameRate then it may be better to remove control from these variable names

SuggestedRemedy

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Change all instances of "txFrameRateControlTimer" to "txFrameRateTimer"

Change all instances of "txFrameRateControlStart" to "txFrameRateStart"

Change all instances of "rxFrameRateControlStart" to "rxFrameRateStart"

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Cl 04A SC 4A.2.7.2 P10 L49 # 4

Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

The units of txAdditionalFrameOverhead should be ""octets"" instead of ""bytes"". Also replace ""packet"" by ""frame"".

SuggestedRemedy

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

In addition to the above change for line 49

Line 38 change frame --> packet
 Line 39 change frame --> packet
 Line 44 change frame --> packet
 Line 51 change frame --> packet

Page 11
 Line 1 change frame --> packet
 Line 3 change frame --> packet

And make analogous changes to Rx variable.

Cl 04A SC 4A.2.7.2 P11 L06 # 5

Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

Add a comment {} to describe the variable txlfsStretchSize

SuggestedRemedy

{In octets, the number of additional inter-frame spacing octets to be added when txRateLimitPayloadRateEnable is enabled}

Proposed Response Response Status C

ACCEPT.

Cl 04A SC 4A.2.8 P12 L20 # 6

Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

""after the completion of timing the txInterFrameSpacing."" is incorrect wording. txInterFrameSpacing is not defined.

SuggestedRemedy

Replace by ""after the completion of interFrameSpacing time.""

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Replace

the Deference process continues to enforce interframe spacing for an additional number of bit times after the completion of timing the txInterFrameSpacing

with

the Deference process enforces the interframe spacing for an additional number of bit times in excess of the constant interFrameSpacing

Cl 30 SC 30.2.5 P15 L31 # 7

Gupta, Tanmay Intel Corporation

Comment Type T Comment Status R

All the Rx variables are GET only. How are they SET?

SuggestedRemedy

Proposed Response Response Status C

REJECT.

The Rx variables reflect the capability / requirements of the receiver. They are (permanently) set to values based on the capabilities and are available for reading by management entities.

Compare to existing objects such as: aMACID; aRateControlAbility; aDeferControlAbility.

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Cl 30 SC 30.3.1.1.43 P18 L01 # 8
Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

Replace Packet in ""aRxRateLimitPacketOverheadStatus"" with Frame. Similarly for subclause 30.3.1.1.44

SuggestedRemedy

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

30.3.1.1.43 replace aRxRateLimitPacketOverheadStatus with aRxRateLimitFrameOverheadStatus

replace 4 instances of "packet" with "frame"

30.3.1.1.44 replace aRxAdditionalPacketOverhead with aRxAdditionalFrameOverhead

replace 2 instances of "packet" with "frame"

30.3.1.1.47
replace 3 instances of frame with packet

30.3.1.1.48
replace 1 instance of frame with packet

Make consistent with changes to 4A.2.7.2 (comment #4)

Add editor's note near variable definitions in 4A to describe "packet" and "frame" consistency. A future revision of 802.3 may consider the variable name interFrameSpacing.

Cl 30 SC 30.3.1.1.43 P18 L12 # 9
Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

Insert ""mode"" after ""A GET operation returns the current Transmit Rate Limit Packet Overhead"". Similar for 30.3.1.1.45, line 46

SuggestedRemedy

Proposed Response Response Status C

ACCEPT.

Cl 99 SC P08 L25 # 10
Gupta, Tanmay Intel Corporation

Comment Type E Comment Status A

This draft amendment to IEEE Std. 802.3 specifies optional mechanisms to limit the rate of transmitted data ""within"" the MAC. ""within"" seems incorrect here.

SuggestedRemedy

Replace ""within"" by an appropriate word like ""by""

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Change to
"This draft amendment to IEEE Std. 802.3 specifies optional mechanisms within the MAC to limit the rate of transmitted data."