# Maintenance Revision #5 Comments

**comment number** 1

**commentor id** 8

**comment type** E

**location** "AS REVISED" Figure 27-8,

**comment** The transition condition statements for changes 1.3 and 1.4 do
not match those presented in the prior text.  In particular,
there is a missing closing parenthesis following
"(command(X)=copy)" in change 1.4, and there is a missing pair of
parentheses around "command(X)=collision" in change 1.3.

**response** accept--editorial fix

**accept response**

**comment number** 2

**commentor id** 8

**comment type** E

**location** Change 1.7, Page 4, Lines

**comment** There is either a redundant pair of parentheses around the entire

expression "((scarrier_present(x)=false ...
(command(x)=quiet))"

OR (depending on your view of boolean syntax)

there is a missing closing parenthesis after "(command(x)=copy)"
and a missing opening parenthesis before
"(scarrier_present(x)=true)"

This should then be reflected in the "AS REVISED" Figure 27-8,
page 7.

**response** accept--editorial fix

**accept response**

| | |
|---|---|
| **comment number** | 3 |
| **commentor id** | 8 |
| **comment type** | E |
| **location** | Change 1 (throughout), pages |
| **comment** | The variable port identifier "(x)" should be capitalized in all cases to agree with current practice for state diagrams. Note: |
| | the "AS REVISED" Figure 27-8 on page 7 already implements |
| **response** | accept--editorial fix |
| **accept response** | |
| **comment number** | 4 |
| **commentor id** | 58 |
| **comment type** | TR |
| **location** | 22.2.4 |
| **comment** | in para 3 replace "Registers 2 through 7" with  "Registers 2 through 10" |
| **response** | reject for this ballot: correct in 802.3y editorial or add to next change list |
| **accept response** | |
| **comment number** | 5 |
| **commentor id** | 58 |
| **comment type** | TR |
| **location** | 22.2.4.1.3 |
| **comment** | in para 1 & 2 replace "1.15:11" with "1.15:9" |
| **response** | reject for this ballot: correct in 802.3y editorial or add to next change list |
| **accept response** | |
| **comment number** | 6 |
| **commentor id** | 58 |
| **comment type** | TR |
| **location** | 22.2.4.1.8 |
| **comment** | in para 1 and 3 replace "1.15:11" with "1.15:9" |
| **response** | reject for this ballot: correct in 802.3y editorial or add to next change list |
| **accept response** | |

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|---|---|---|
| **comment number** | | 7 |
| **commentor id** | 58 | |
| **comment type** | TR | |
| **location** | 22.2.4.2.10 | |
| **comment** | in para 1 replace in 2 places "1.15:11" with "1.15:9" | |
| **response** | reject for this ballot: correct in 802.3y editorial or add to next change list | |
| **accept response** | | |

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|---|---|---|
| **comment number** | | 8 |
| **commentor id** | 58 | |
| **comment type** | TR | |
| **location** | 22.2.4.3 | |
| **comment** | in para 1 replace "Six registers" with "Nine registers" | |
| **response** | reject for this ballot: correct in 802.3y editorial or add to next change list | |
| **accept response** | | |

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|---|---|
| **comment number** | 9 |
| **commentor id** | 58 |
| **comment type** | TR |
| **location** | text for comments 4-8 |
| **comment** | A stable base document is required to produce the changes to 802.3z. The following items apparently missed in production of 802.3y make this difficult. since most of the items below will be further modified by 802.3z.

If they cannot be included in 802.3x & 802.3y by the IEEE editor (they are all editorial fixes in support of technical changes included in 802.3y), then they should be included in 802.3aa for the earliest possible correction of the information.  Only as a last resort should they be

included in 802.3z as currently documented in 802.3z/D3.0.

Technical Required--As currently edited the paragraphs listed below are not in agreement with changes to tables 22-6 and 22-8.  Because of the addition of two new subsections 22.2.4.2.6 and 22.2.4.2.7 and renumbering of current subsections 22.2.4.2.6 through 22.2.4.2.13, the subclause references in 22.7.3.4, MF39 through MF51 need to be  updated (least significant subsection number incremented by 2).

SuggestedRemedy:

This comment will be resolved with a clear determination on which document will include the above changes. |
| **response** | put on list for maintenance & change management policy |
| **accept response** | |
| **comment number** | 10 |
| **commentor id** | 69 |
| **comment type** | T |
| **location** | Fig. 27-2 illustration |
| **comment** |  The diagram on page 10 entitled "Figure 27-2 -- Repeater core diagram (AS CURRENTLY PUBLISHED)" is the diagram including the proposed change, not the diagram as currently published. |
| **response** | Accept--editorial fix |
| **accept response** | |

**comment number** 11

**commentor id** 77

**comment type** E

**location** pg 3, line 29

**comment** EDITORIAL -- capitalization:

replace "transmit Is" with "transmit is".

**response** Accept--editorial fix

**accept response**

**comment number** 12

**commentor id** 77

**comment type** E

**location** pg 5, line 15

**comment** EDITORIAL -- spelling:

replace "activity form the" with "activity from the".

**response** Accept--editorial fix

**accept response**

**comment number** 13

**commentor id** 77

**comment type** E

**location** pg 5 lines 19-20

**comment** EDITORIAL -- grammar:

replace "in any way; i.e. through" with "in any way, i.e.,

**response** Accept--editorial fix

**accept response**

**comment number** 14

**commentor id** 77

**comment type** E

**location** pg 5 lines 34-35

**comment** TECHNICAL REQUIRED -- wrong symbol:

replace "underscore" by "greater than or equal symbol"

(in ASCII, that is to replace "_" by ">")

**response** Accept--editorial fix

**accept response**

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|---|---|
| **comment number** | 15 |
| **commentor id** | 77 |
| **comment type** | E |
| **location** | pg 6 line 17 |
| **comment** | EDITORIAL -- grammar: |
| | insert "on" before "each collision" in replacement text. |
| **response** | Accept--editorial fix |
| **accept response** | |
| **comment number** | 16 |
| **commentor id** | 77 |
| **comment type** | E |
| **location** | disposition of 77 comments--in |
| **comment** | BTW, I assume you will either make the obvious correction to the "greater than or equal" symbols and automatically flip my vote to "approve with comments" or contact me again, right?  I'd just like to point out that I am NOT planning to attend the Maui meeting, so I don't want to create a problem when you go to tally the votes. |
| **response** | Accept--editorial fix |
| **accept response** | |
| **comment number** | 17 |
| **commentor id** | 92 |
| **comment type** | E |
| **location** | pg 6, line 17 |
| **comment** | EDITORIAL |
| | insert the word "on" before the inserted text "each collision.. |
| **response** | Accept--editorial fix |
| **accept response** | |

| comment number | 18 |
| --- | --- |
| commentor id | 92 |
| comment type | E |
| location | |

**comment**   wish I had been in attendance earlier as I would have proposed some changes to the CIM state machine defined by Figure 27-9.

Currently, the state machine is sensitive to links with BER rates that are below acceptable levels. Because the squelch criteria for 100Base-TX is not directly related to signal quality, its possible for a link to operate at 10e-4 (better or worse) levels. This is because squelch is based upon the low frequency pulse amplitudes that exist in a scrambled IDLE signal which are not substantially impacted by weak links. The higher frequency pulses

can be affected to the point that the 100Base-TX receiver can not

recover them, yet squelch is negated. When such a link exists, its possible for a false carrier event to reduce the effect of idle_timer_done time to zero bit times.

This is done because carrier_status(X)=ON transition from STABILIZATION WAIT state does not depend on rxerror_status(X)in
the state machine described in Figure 27-9.

Looking at Figure 24-11 shows any NON-IDLE reception will cause
receiving<= TRUE which causes CRS<=TRUE which causes carrier_status(X)<=TRUE. Thus, a link may cause rapid cycling through the LINK UNSTABLE,ipg_timer_done-> STABILIZATION

WAIT,carrier_status(X)=ON -> SSD PENDING WAIT loop. During this
loop, carrier_status is going on and forcing the transmit state machine to begin transmitting onto remaining ports of the repeater.

I have observed marginal 100TX transceiver implementations which
will cause repeaters to reach 30% utilization levels when attached to IDLE links. The BEST transcievers I have seen will not cause this problem until the link exceeds the TP-PMD cable specs. The average device will cause this to occur at cable lengths that are beyond the 100m nominal cable spec, but before

the TP-PMD spec. The worst devices, will cause this occurrance at
link lengths that are below the 100m nominal cable length.

An extension of this problem is that since carrier-sense is not

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| | arbitration procedures, the network throughput is effectively brought to almost zero despite the fact that only 30% of the |
| **response** | No response   actual bandwidth is being consumed by false carriers. |
| **accept response** | A solution would be to modify 27-9 STABILIZATION WAIT |
| **comment number** | 19 |
| **commentor id** | 92 |
| **comment type** | E |
| **location** | re comment 18 |
| **comment** | Regarding my earlier message; I mailed it out *just a little too soon*. |

Actually, the root cause of the behavior I have observed can't be
what
I suspected because the port must be isolated during the loop.
Upon
further inspection, it must be that the idle_timer is just not
sufficiently long enough to protect the network with a bad
100Base_TX
Link.

Assuming that people are using the minimum idle_timer value, the

duration of the idle_timer is 24,750 BT which is approximately
3Kbytes
worth of time. This is actually pretty close to the measured level of

utilization on IDLE links that I mentioned earlier.

Therefore, a better solution would be to either improve the squelch

criteria for 100Base-TX or increase the idle_timer value to a much

larger value.

I'm not going to suggest a specific remedy at this time. I think I
will think this through more carefully first.

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| **response** | Accept--editorial fix |
| **accept response** | |

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|---|---|
| **comment number** | 20 |
| **commentor id** | 93 |
| **comment type** | E |
| **location** | REVISION #5--LINE 17 |
| **comment** | There appears to be a typographical error on page 6 of Maintenance<br>Revision #5 at line #17.  It currently reads as:<br><br>"The count shall be incremented each collision and shall..."<br><br>I am assuming that this should be reworded to read as:<br><br>"The count shall be incremented for each collision and shall..." |
| **response** | Accept--editorial fix |
| **accept response** | |
| **comment number** | 22 |
| **commentor id** | 103 |
| **comment type** | E |
| **location** | pg 4-lines 15-17 |
| **comment** | change to: no_collision_timer_Done * (((scarrier_present(x) = false) * (command(x) = copy)) + ((scarrier_present(x) = true) *<br>    (command(x) = quiet)))<br>Rationale: Parenthesis incorrectly placed |
| **response** | Accept--editorial fix |
| **accept response** | |
| **comment number** | 23 |
| **commentor id** | 103 |
| **comment type** | E |
| **location** | pg 4, line 18 |
| **comment** | change: 'a receive' to: 'receipt' |
| **response** | Accept--editorial fix |
| **accept response** | |

**comment number** 24

**commentor id** 103

**comment type** E

**location** pg 4 line 18

**comment** Line 18 change: 'transmitting a' to: 'as transmission of a'
Rationale: Incorrect grammar

**response** Accept--editorial fix

**accept response**

**comment number** 25

**commentor id** 103

**comment type** E

**location** pg 4, lines 23-24

**comment** change to: 'The count shall be incremented on each collision
   and shall be reset upon a transmit or receive event which exceeds the
   no_collision_timer.'
Rationale: Incorrect grammar and does not stipulate no_collision_timer
   information. State diagram indicates that no_collision_timer_Done
   must be true.

**response** Accept--editorial fix

**accept response**

**comment number** 26

**commentor id** 103

**comment type** E

**location** pg 4, line 31

**comment** change to 'receive meeting no_collision_timer.'
Rational:  As above, state diagram indicates that no_collision_timer_Done
   must be true.

**response** Accept--editorial fix

**accept response**

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| **comment number** | 27 |
| **commentor id** | 109 |
| **comment type** | TR |
| **location** | |
| **comment** | The changes made render existing implementations non-compliant.  The changes should be optional in order to preserve backward compatibility with existing implementations |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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| **comment number** | 28 |
| **commentor id** | 133 |
| **comment type** | TR |
| **location** | |
| **comment** | While I understand the rationale for the revisions, I am concerned about the impact on existing implementations. Although the indication is that their is no impact on existing networks, there is a potentially huge impact on existing shipping products, which will all potentially become non-compliant if these changes are adopted.<br><br>I would strongly suggest that the changes are re-worded to allow the current 802.3u implementations to remain compliant, and offer this improvement as a strongly worded alternate implementation. This will allow silicon and system vendors to migrate to this preferred implementation over time, without making the entire installed base of 100BASE-T repeaters non compliant in the mean time. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 29 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 1) Change transition:<br>COLLISION COUNT IDLE to WATCH FOR COLLISION<br>Update to read:<br>(scarrier_present(x) = true) +<br>((part_opt(X) = true) * (command(x) != quiet))<br>This ensures that the COLLISION COUNT IDLE state is exited for both<br>receive activity (scarrier_present(x) = true) and transmit activity<br>(command(x) != quiet).  The term (command(x) != quiet) has to be Ored in to<br><br>ensure transmits also cause an exit from the COLLISION COUNT IDLE<br>state. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 30 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 2) Change transition:<br>WATCH FOR COLLISION to COLLISION COUNT IDLE<br>Update to read:<br>(scarrier_present(x) = false) *<br>(((part_opt(X) = false) * (command(x) != collision)) +<br>((part_opt(X) = true) * (command(x) = quiet)))<br>This ensures that the collision counter is neither incremented nor<br><br>cleared if both transmit and receive activity have ceased before the<br>no_collision_timer has completed.  The term (command(x) = quiet) has to<br>replace the term (command(x) != collision) to ensure that if the WATCH FOR<br>COLLISION state is entered due to a transmit it remains there until<br><br>that transmit is completed. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 31 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 3) Change Transition:<br>WATCH FOR COLLISION to COLLISION COUNT INCREMENT<br>Update to read:<br>(command(x) = collision) *<br>((part_opt(X) = true) * (scarrier_present(x) = true))<br>This change ensures that the collision counter is only incremented when a<br>collision is happening on port X.  The term (scarrier_present(x) = true)<br>is ANDed to qualify the fact that the collision is occurring and that port<br>X is<br>receiving and hence taking part in the collision. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 32 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 4) Change transition:<br>WATCH FOR COLLISION to CLEAR COUNTER<br>Update to read:<br>no_collision_timer_Done *<br>(command(x) != collision) *<br>((scarrier_present(x) = true) +<br>((part_opt(X) = true) * (command(x) = copy)))<br>This change ensures that either a transmit or a receive for duration<br>greater than no_collision_timer will reset the collision counter. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 33 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 5) Change transition:<br>PARTITION HOLD to PARTITION COLLISION WATCH<br>Update to read:<br>(command(x) != quiet) +<br>((part_opt(X) = true) * (scarrier_present(x) = true))<br>This change ensures a receive or a transmit will start the<br>no_collision_timer and un-partition the port once the timer is done.<br><br>Note also that the present condition (command(x) = copy) +<br>(command(x) =<br>collision) is<br>equivalent to (command(X) != quiet) hence that optimisation is<br>also made. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 34 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 6) Change transition:<br>PARTITION COLLISION WATCH to PARTITION WAIT<br>Update to read:<br>((part_opt(X) = false) * (scarrier_present(x) = true)) +<br>((part_opt(X) = true) * (scarrier_present(x) = true) * (command(x)<br>!=<br>quiet))<br>This change ensures that if a receive is occurring while the port is<br><br>transmitting (Command(x) = copy or collision) the port remains |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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| **comment number** | 35 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 7) Change transition: PARTITION COLLISION WATCH to WAIT TO RESTORE PORT Update to read: no_collision_timer_Done * (((scarrier_present(x) = false) * (command(x) = copy)) + ((part_opt(X) = true) * (scarrier_present(x) = true) * (command(x) = quiet))) This change ensures that a receive of a good packet as well transmitting a packet without contention restores the port to full operation. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 36 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 8) Addition to Variables sub-clause 27.3.2.1.2 part_opt(X) Implementation option. Either value may be chosen (see 27.3.1.6). Values: true; port will support the enhanced partition state machine. false; port will not support the enhanced partition state machine. This change adds the variable required to control the enhancements added to the partition state machine described above. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 37 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 9) Change Text in sub-clause  27.3.1.6 (Second paragraph): Change<br>'... The repeater PMA interface shall count consecutive collisions. The<br>count<br>shall be incremented on each transmission that suffers a collision and<br>shall be<br>reset on a successful transmission...'<br>to read<br>'... The repeater PMA interface shall count collisions. The count shall be<br>incremented on each transmission that suffers a collision. The count shall<br>be<br>reset on a transmission of duration in excess of no_collision_timer (see<br>27.3.2.1.4) without incurring a collision....' |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 38 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 0) Change Text in sub-clause  27.3.1.6 (Fourth paragraph, item b):<br>Change<br>'b) The repeater has detected activity on the port for more than the number<br> of<br>bits specified for no_collision_timer (see 27.3.2.1.4) without incurring a<br>collision'<br>to read<br>'b) The repeater has transmitted on the port for a duration in excess of<br>no_collision_timer without incurring a collision' |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 39 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | Changes 9 and 10 above bring the text into line with the existing state machine, the text in 11 below adds text to describe the new features a optional. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 40 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 11) Add the following note:- 'NOTE: It is possible that under some network conditions the partition state machine will partition a port due to normal network collisions rather than a fault condition. To reduce the likelihood of this occurring the following optional measures, as described in figure 27-8, are recommended.' a) The collision count is additionally reset when the repeater has received activity on the port for a duration in excess of no_collision_timer (see 27.3.2.1.4) without detecting a collision b) The Partition function is additionally reset when the repeater has received activity on the port for a duration in excess of no_collision_timer without detecting a collision. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

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|---|---|
| **comment number** | 41 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | 27.7.4 |
| **comment** | 12) Add the following items to the PICS<br>Add addition item to 27.7.3, Major capabilities/options:-<br>Item: 'OPF', Feature: 'Partition function supports optional measures as<br>described',<br>Sub-clause: '27.3.1.6', Status: 'O'.<br>Add the following three additional items to 27.7.4.8, Partition Function:-<br>Item 'PA9', Feature: 'Collision counter reset |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 42 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | 27.7.4.8 |
| **comment** | 13) Change Text in subclause 27.7.4.8 (PICS items PA2 and PA3).-<br>Replace text<br>'Consecutive Collision Count'<br>to read<br>'Collision Count' |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

| comment number | 43 |
|---|---|
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | 27.7.4.8 |
| **comment** | 14) Change Text in subclause 27.7.4.8 (PICS items PA4).-<br>Change this entry to read:- |

| Item | Feature | Subclause | Status | Support Value/Comment |
|---|---|---|---|---|
| | Collision Counter Reset | 27.3.1.6 | | |
| PA4 | | | M | Count reset on transmission in excess of no_collision_timer without collision |
| PA5 | | | OPF:M | Count reset on receive activity in excess of no_collision_timer without collision |

The following Items will have to be re-numbered

PA6 and PA7 become PA7 and PA8

Reword Item PA8 as follows:-

| Item | Feature | Subclause | Status | Support Value/Comment |
|---|---|---|---|---|
| | Reset of Partition State | 27.3.1.6 | | |
| PA9 | | | M | Power-up reset or transmission in excess of no_collision_timer without collision |
| PA10 | | | OPF:M | Receive activity in excess of no_collision_timer without collision |

This change matches the PICS to the changes in the text and also fixes a
ambiguity that exists in the comment field of PA4

**response**                Accept in principle--referred to David Law and David Fifield to
define an acceptable compromise

**accept response**

**comment number**                      44

**commentor id**       136137138

**comment type**      TR

**location**             Figure 27-8

**comment**           Name: Law
SubClause: Figure 27-8
Page: 5 & 6
Line: 26 to 54, 1 to 22
Comment type: Technical

Suggest for the reasons stated in my comment above this change
should made
optional by the use of the same mechanism suggested above.
Suggest that the jabber timer is renamed as it is now shared
between the
Jabber
and Partition state machines. The body of the clause text and the
PICS have

to be changed to match this.
Suggest that the body of the clause be changed to list the
additional
reason for
entry into the partition state.
Suggest that the PICS should be updated to include this additional
 reason
for
entry into the partition state.

The changes in detail would be:-

**response**                Accept in principle--referred to David Law and David Fifield to
define an acceptable compromise

**accept response**

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|---|---|
| **comment number** | 45 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 1) In sub-clause 27.3.2.1.4 rename the jabber_timer to be the excess_carrier_timer<br>reword to read:-<br>'excess_carrier_timer<br>Timer for length of carrier which must be present before the Jabber state<br>(27.3.2.7), and optionally during a collision the Partition state (27.3.1.6), is<br>entered. The timer is done when it reaches 40 000 - 75 000 BT.'<br>This is required as this timer is now shared between the Partition and<br>Jabber<br>functions. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 46 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 2) In sub-clause 27.3.1.7 replace the word 'jabber_timer' with the word<br>'excess_carrier_timer'<br>This is required to match with the change of name of this variable. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

**comment number** 47

**commentor id** 136137138

**comment type** TR

**location** Figure 27-8

**comment** 3)  In Figure 27-7, Receive timer state diagram for port X, replace the
variable
name 'jabber_timer' with 'excess_carrier_timer' and the variable name
'jabber_timer_done' with the variable name
'excess_carrier_timer_done'
This is required to match with the change of name of this variable.

**response** Accept in principle--referred to David Law and David Fifield to define an acceptable compromise

**accept response**

**comment number** 48

**commentor id** 136137138

**comment type** TR

**location** Figure 27-8

**comment** 4) In Figure 27-8 Partition State Diagram, change right exit term out of
COLLISION COUNT INCREMENT state to PARTITION WAIT state;

From:-
CC(X) >= CCLimit
To:-
CC(X) >= CCLimit +
((part_opt(X) = true) * excess_carrier_timer_done)

**response** Accept in principle--referred to David Law and David Fifield to define an acceptable compromise

**accept response**

| | |
|---|---|
| **comment number** | 49 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 5)  In sub-clause 27.7.4.9, item RJ2, replace the word 'jabber_timer' with 'excess_carrier_timer'. This is required to match with the change of name of this variable. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

| | |
|---|---|
| **comment number** | 50 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | 6) ASSUMING that the other partition change request has been accepted the definition of part_opt will have been provided. The note in 27.3.1.6 will have to be amended to read:- |
| | 'NOTE: It is possible that under some network conditions the partition state machine will partition a port due to normal network collisions rather than a fault condition. It is also possible that some double fault conditions will |
| | remain undetected. To reduce the likelihood of these events occurring the following optional measures, as described in figure 27-8, are recommended.' |
| | a)  The collision count is additionally reset when the repeater has |
| | received activity on the port for a duration in excess of no_collision_timer (see 27.3.2.1.4) without detecting a collision |
| | b) The Partition function is additionally reset when the repeater has received activity on the port for a duration in excess of no_collision_timer without |
| | detecting a collision. |
| | c) The Partition condition is additional detected due to a carrier event of |
| | duration in excess of excess_carrier_timer in which a collision has |
| | occurred. |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

| | |
|---|---|
| **comment number** | 51 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | An addition PICS item will have to be added to read:- |

Add new item PA11:-

Item  Feature             Subclause  Status  Support Value/Comment

PA11  Excessive Carrier   27.3.1.6  OPF:M          Carrier in excess
of
    Duration entry into
excess_carrier_timer
    Partition state                          with a collision

| | |
|---|---|
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |
| **comment number** | 52 |
| **commentor id** | 136137138 |
| **comment type** | TR |
| **location** | Figure 27-8 |
| **comment** | (See attached file: PART_23.PPT) |
| **response** | Accept in principle--referred to David Law and David Fifield to define an acceptable compromise |
| **accept response** | |

| | |
|---|---|
| **comment number** | 53 |
| **commentor id** | 134 |
| **comment type** | T |
| **location** | Change 2 |
| **comment** | Comment:  I am voting for this change because it fixes the problem |
| | identified, but there is a better fix which I would like you to consider. |
| | That is to change the exit from Active to Jam to activity(ANYXN). This is |
| | the same method used in the 10 Mbit/s repeater.  The change as proposed in |
| | the ballot will produce a transition of the repeater core briefly to the |
| | idle state and then back through Assign to Active state (for the case where |
| | 1 port that is not N is receiving activity).  The other ports will see a |
| | |
| | brief interpacket gap.  The alternative I propose will cause a transition |
| | to JAM then through Assign to Active so that the activity is continuous on |
| | other ports. |
| | |
| | CommentEnd: |
| | |
| | SuggestedRemedy:   Leave the transition from Active to Idle unchanged and |
| | change the transition from Active to Jam activity(ANYXN). RemedyEnd: |
| **response** | Accept--to be incorporated into general fix |
| **accept response** | |