Comment ID 41 Topic

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SC Fig. 36-7b **P** 36.30 **L** 24

Comment Type TR Comment Status R

The comment also applies to clause 35, page 35.6, subclause 35.2.1.5. Sorry - the web comment form does not have a field for this data.

The PCS describes valid end delimiters as /T//R//R/ or /T//R//K28.5/. However, in D3.0 figure 36.7b, the receive PCS ends the current frame when it receives /V/. When /V/ is received, the PCS signals carrier-extend error. Although the frame is terminated, the PCS client is required to associate the carrier-extend error with the preceding frame.

SuggestedRemedy

CI 36

The arc from state RECEIVE to state EXTEND_ERR in D3.0 figure 36-7b should instead go to state RX_DATA_ERROR.

Proposed Response

Response Status Z

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Duplicate of comment 40.

Comment ID 40 Topic

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CI 36 **SC** Fig. 36-7b **P** 36.30 **L** 24

Comment Type TR Comment Status A

The comment also applies to clause 35, page 35.6, subclause 35.2.1.5. Sorry - the web comment form does not have a field for this data.

The PCS describes valid end delimiters as /T//R//R/ or /T//R//K28.5/. However, in D3.0 figure 36.7b, the receive PCS ends the current frame when it receives /V/. When /V/ is received, the PCS signals carrier-extend error. Although the frame is terminated, the PCS client is required to associate the carrier-extend error with the preceding frame.

SuggestedRemedy

The arc from state RECEIVE to state EXTEND_ERR in D3.0 figure 36-7b should instead go to state RX_DATA_ERROR.

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Resolved per the resolution of comment 39.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 39 Topic

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CI 36 SC Fig. 36-7b P 36.30 L 24

Comment Type TR Comment Status A

The comment also applies to clause 35, page 35.6, subclause 35.2.1.5. Sorry - the web comment form does not have a field for this data.

The PCS describes valid end delimiters as /T//R//R/ or /T//R/K28.5/. However, in D3.0 figure 36.7b, the receive PCS ends the current frame when it receives /T/. When the two code-groups following /T/ are not /R//R/ or /R//K28.5/, the PCS signals carrier-extend error. Although the frame is terminated, the PCS client is required to associate the carrier-extend error with the preceding frame.

SuggestedRemedy

The arc from state EPD_CHECK_END to state EXTEND_ERR in D3.0 figure 36-7b should instead go to state RX_DATA_ERROR.

With this change, when a data code-group became corrupted to /T/, the PCS would clearly indicate a data error to its client. Also, when an end delimiter became corrupted, the PCS would clearly indicate a data error to its client. The PCS would continue to recover from a missing or corrupted end delimiter, via the state "EARLY_END".

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. The following changes are made:

Delete state EPD1 CHECK END.

Add a transition from state RECEIVE to state TRR+EXTEND on the condition that check_end =3D /T/R/R/.

Add a transition from state RECEIVE to state TRI+RRI on the condition that check end =3D /T/R/K28.5/ * EVEN.

Add a state EARLY END EXT.

Add a transition from state RECEIVE to state EARLY_END_EXT on the condition that check_end =3D /R/R/R.

In state EARLY END EXT, set RX ER <=3D TRUE.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Response: O/open W/written S/sent to commentor for review C/closed U/unsatisfied Z/withdrawn

Add a transition from state EARLY_END_EXT to state EPD2_CHECK_END under the condition SYNC_UNITDATA.indicate.

In state PACKET_BURST_RRS, set RX_DV <=3D FALSE and set RXD<7:0> <=3D 0000

Change the transition from state RECEIVE to state EARLY_END to become the condition that:

EVEN * (check_end =3D /K28.5/D/K28.5/ + check_end =3D /K28.5/D21.5/D0.0/ + check_end =3D /K28.5/D2.2/D0.0/).

Delete the transition from state EARLY_END to state RCV_C_CODE.

Change the transition from state EARLY_END to state IDLE_K to become SYNC_UNITDATA.indicate.

Change the transition from state RECEIVE to state RX_DATA_ERROR to become "ELSE".

Comment ID 204 Topic

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CI 36 SC 36.2.4 P 36.7 L 1

Comment Type T Comment Status A

The "shall" is not referenced in the PICS.

"The definition of the 8B/10B transmission code in this standard shall be identical to that specified in ANSI X3.230-1994 (FC-PH) Clause 11."

SuggestedRemedy

Add PICS reference to 36.7.4.1.3 Code group functions

Item - CGx

Feature - 8B/10B transmission code

Subclause - 36.2.4 Status - M Support - Yes[]

Comment - Identical to ANSI X3.230-1994=09

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alterate remedy was selected as follows:

In 36.2.4, replace "shall be" in the first sentence on page 36.7 with "is".

In 36.7.4.1.1, delete item PCS5.

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CI 36 SC 36.2.4.2 P 36.8 L 5

Comment Type T Comment Status A

The "shall" is not referenced in the PICS.

"The contents of a packet shall be transmitted sequentially beginning with the ordered_set used to denote the Start_of_Packet (the SPD delimiter) and proceeding code_group by code_group from left to right within the definition of the packet until the ordered_set used to denote the End_of_Packet (the EPD delimiter) is transmitted."

SuggestedRemedy

Add PICS reference to 36.7.4.1.3 Code group functions

Item - CGx

Feature - Transmission order

Subclause - 36.2.4.2

Status - M

Support - Yes[]

Comment - sequential code_groups from SPD to EPD=09

Proposed Response

Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alterate remedy was selected as follows:

In 36.2.4.2, line 5, replace "shall be" with "is".

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 19 Topic

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CI 36 SC 36.2.4.7 P 36.10 L 6

Comment Type T Comment Status R

My reading of 36.2.4.4 indicates that the entry for D0.0 does not normally flip disparity, however, in the event of a preceeding data error it may do so. The rules stipulate that after having received D0.0- disparity is set to (-), and after having received D0.0+ disparity is set to (+), regardless of the previous value of disparity.

Table 36-3 should reflect this interpretation of the disparity rules.

SuggestedRemedy

Insert a column before column 6 in table 36-1(a-e) The new column header is: Set- RD The new value column is: "same" (for those balanced words whose codings are identical in the (-) and (+) columns, "-" for those words which set the disparity to (-). and "+" for those words which set the disparity to (+).

Change the heading of column 9 to read: Set+ RD The new value in that column is: "same" (for those balanced words whose codings are identical in the (-) and (+) columns, "-" for those words which set the disparity to (-). and "+" for those words which set the disparity to (+).

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. For valid code groups, the tables are always accurate. Invalid code-groups are not included in the table. The following changes are intended to clarify the calculation of running disparity by the receiver and transmitter:

Change the heading of 36.2.4.4 to: Running disparity rules.

Add to the end of 36.2.4.4: "For valid code groups, the results of the running disparity calculations, relative to the beginning running disparity, are indicated in the Ending RD column of tables 36-1 and 36-2."

Change the first sentence of 36.2.4.6 from "The column ..." to "The column in tables 36-1 and 36-2 ...".

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Response: O/open W/written S/sent to commentor for review C/closed U/unsatisfied Z/withdrawn

Comment ID 206 Topic

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COI OTTI INCO OPORADIMY EAD

Comment Type T Comment Status A

The "shall" is not referenced in the PICS.

SC 36.2.4.7.1

"c) The second code_group of all multi-code_group ordered_sets shall be a data code_group."

P 36.9

L 53

SuggestedRemedy

Add PICS reference to 36.7.4.1.4 Ordered set functions

Item - OSx

CI 36

Feature - Second code group of a multi-code group ordered set contains a data code group

Subclause - 36.2.4.7.1

Status - M

Support - Yes[]

Comment -

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI.

Agreed. An alterate remedy was selected by straw poll of 10 to 2 as follows:

In 36.2.4.7.1, item a, replace "shall consist" with "consists".

In item b. replace "shall be" with "is always".

In the first sentence of item c, replace "shall be" with "is always".

In the third sentence of item c, replace "shall provide" with "provides".

Comment ID 14 Topic

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CI 36 SC 36.2.5.2.2 P 36.30 L

Comment Type T Comment Status A

Figure 36-7b - PCS receive state diagram, part b is inconsistant in its handling of a states transitions back to itself. States False_Carrier and Extend_Err show explicit transitions back to themselves, while states Packet Burst RRS and TRI+RRI do not.

SuggestedRemedy

Remove the explicit transistions from FALSE_CARRIER and EXTEND_ERR back to themselves.

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per the suggested remedy.

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CI 36 SC 36.2.5.2.6 P 36.32 L 11

Comment Type T Comment Status A

Clarify meaning of the following shall statement:

"Acquisition of synchronization shall insure the alignment of multi-code_group ordered_sets to even-numbered code_group boundaries."

Also, is this testable/observable, if so, add to PICS or remove shall.

SuggestedRemedy

Reword in the spirit of the following:

"Aquisition of synchronization shall insure that the alignment of properly= received

multi

code_group ordered_sets occur on even-numbered code_group boundaries."

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alternate remedy was selected as follows:

In 36.2.5.2.6, line 11, replace "shall insure" with "insures".

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 210 Topic

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CI 36 SC 36.3.7 P 36.43 L 21

Comment Type T Comment Status A

Missing "shall" from PICS

"A device shall be explicitly placed in Loopback mode (i.e., Loopback mode is not the normal mode of operation of a device)."

SuggestedRemedy

Add PICS reference to 36.7.4.1.7 PMA functions

Item - PMAx

Feature - Loopback mode entry

Subclause - 36.3.7

Status - M

Support - Yes[]

Comment - must be explicitly set

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alternate remedy was selected as follows:

In 36.3.7, page 36.42, line 53, change "Loopback mode shall be provided" to "Loopback mode shall be provided as specified in this subclause"

In line 54, change "shall be" to "are".

On page 36.43, line 21, change "shall be" to "is".

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CI 36 SC 36.3.7 P 36.42 L 53

Comment Type T Comment Status A

Missing "shall" from PICS

"Loopback mode shall be provided by the transmitter and receiver of a device=

diagnostic test function to the device."

SuggestedRemedy

Add PICS reference to 36.7.4.1.7 PMA functions

Item - PMA6

Feature - Loopback mode

Subclause - 36.3.7

Status - M

Support - Yes[]

Comment -

Proposed Response

Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI.

Accepted per suggested remedy.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 211 Topic

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CI 36 SC 36.3.7.1 P 36.43 L 30

Comment Type T Comment Status A

Missing "shall" in PICS

"Under such conditions, decoded information shall not be presented by the receiver to the GMII until synchronization has been reestablished."

Also, why does this only apply to loopback mode? It seems this type of statement is necessary any time sync status=3DFAIL.

SuggestedRemedy

Add PICS reference to 36.7.4.1.9 PMA receive functions

Item - PRAx

Feature - Loss of synchronization

Subclause - 36.3.7.1

Status - M

Support - Yes[]

Comment - data not presented to GMII in loopback mode

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alternate remedy was selected as follows: In 36.3.7.1, delete the last sentence.

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CI 36 SC 36.5.1 P 36.44 L

Comment Type T Comment Status R

36.5.1 Should not be normative. The GMII is not an external interface, and therefore cannot be conformance tested. These delay numbers are for the clause 42 delay budget. Replace the paragraph with suggestion below.

SuggestedRemedy

The delay assumptions for 1000BASE-X PHYs are specified in table 36-9. This table applies for all 1000BASE-X PMDs.

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. In clause 35, the electrical characteristics are mandatory when the GMII is used. We agree with this. We do not see a difference between the delay constaints and the electrical characteristics and believe that both should be mandatory when the GMII is used. Rather than make 36.5.1 informative, we believe that 35.2.4 should be mandatory.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 21 Topic

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CI 36 SC 36A.4 P 36A.2 L 51

Comment Type T Comment Status A

On P36A.3/L1 what is supposed to be the second data octet is erroneously labelled the "last byte of the modified RPAT".

SuggestedRemedy

Change line 51 to read:

DISPARITY FLIP: The first two octets of data in the continuous random test pattern packet

BE 5

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Replace text on page 36A.2, lines 51 through 55, and page 36.A3, lines 1 through 3, with the provided text.

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CI 36 SC 36A.4 P 36A.2 L 44

Comment Type T Comment Status A

The math is wrong. Looks like a typo. 774 does not equal 2 + 12*64, however, 774 does equal 2 + 12*64 + 4

SuggestedRemedy

Delete closing parenthesis after the word sequence. Add closing parenthesis at the end of the sentence (line 45).

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted in principle. The quantity 774 actually includes the FCS. The accepted change is to correct the quantity of data octets to 770.

Comment ID 200 Topic

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CI 36 SC 36A.4 P 36A.2 L 49

Comment Type T Comment Status A

The start delimiter should be D5 and not 5D.

SuggestedRemedy

Change PREAMBLE/SFD of "5D" to "D5" in lines 32 and 49.

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per suggested remedy.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 43 Topic

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CI 36 **SC** Fig 36-7b **P** 36.30 **L** 44

Comment Type T Comment Status R

For each error in the data stream, the receive PCS branches to state RX_DATA_ERROR where it sends a single data error to the PCS client, then returns to monitoring the receive stream. However, when an error occurs during extension, the receive PCS latches-up in state EXTEND_ERR. I believe that RX_DATA_ERROR represents the most appropriate model and that the operation of EXTEND_ERR would be improved if it was consistent with that model.

SuggestedRemedy

Remove the current exit conditions from state EXTEND_ERR. Add an arc from state EXTEND_ERR to state EPD2_CHECK_END on the condition SYNC_UNITDATA.indicate.

Proposed Response

Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI.

If it ain't broke, don't fix it.

Comment ID 8 Topic

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CI 36 **SC** fig 36-7b **P** 36.30 **L** 34

Comment Type T Comment Status A

if AN is disabled and the partner starts to send C codes the RCV state machine will be locked in C codes forever.

SuggestedRemedy

Add an arc from RCV_C_CODE state back to IDLE_K when an_enable =3D FALSE * SYNC_UNITDATA.indicate (/K28.5/*EVEN) so if AN disabled and the ANEG SM will stay inactive - the RCV will not stay in the C code state.

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Add a transition from state RCV_C_CODE to state IDLE_K on the condition that:

mr an enable =3D FALSE * SYNC UNITDATA.indicate([/K28.5/] * EVEN)

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

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CI 36 SC Fig 36-7b P 36.30 L 24

Comment Type T Comment Status A

Optimization.

The end delimiter can become corrupted. Also, the transmit PCS does not send an end delimiter when its client sends data immediately followed by carrier-extend error propagation.

When not bursting, the receive PCS recovers context following a missing or corrupted end delimiter by detecting the IDLE stream in the interframe gap. A similar capability can be provided during bursts by recognizing /R//R//R as the burst inter-frame gap fill. At all times, receiving /R//R//R without a preceding end delimiter is a clear indication that the end delimiter was missing or corrupted. Recovery on detection of /R//R//R/ would prevent single errors from affecting two frames of a burst.

SuggestedRemedy

In figure 36-7b, add a state EARLY_END_EXT. Add an arc from state RECEIVE to state EARLY_END_EXT under the condition check_end=3D/R//R//R/. In state EARLY_END_EXT, set RX_ER <=3D TRUE in order to signal a data error to the PCS client. Add an arc from state EARLY_END_EXT to state EPD2_CHECK_END under the condition SYNC_UNITDATA.indicate.

Proposed Response

Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Resolved per the resolution of comment 39.

Comment ID 203 Topic

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CI 36 **SC** Tables 36-9 and **P** 36.44 **L** 35

Comment Type T

Comment Status A

Contents of the tables do not reflect the full bit budget allocated to the PHY, and are inconsistent with the values used to calculate the maximum topologies in clause 41.

SuggestedRemedy

Contents of Table 36-9 "Max" column should be:

TX_EN sampled to MDI Ouput 128

MDI input to CRS assert 144
MDI input to CRS deassert 144

MDI input to CRS deassert 144
MDI input to COL assert 144

MDI input to COL deassert 144

TX EN sampled to CRS assert 16

TX EN sampled to CRS deassert 16

Table 36-9 "Min" column should be blank (remove question marks).

Contents of Table 36-10 "Max" column should be:

MAC transmit start to MDI output 184

MDI input to MDI output 440

(worst case nondeferred transmit)

MDI input to collision detect 240

MDI input to MDI output Jam 44

(worst case collision response)

Proposed Response

Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per suggested remedy.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 114 Topic

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CI 36 SC 36.1.7 P 36.4 L 45

Comment Type E Comment Status A

Reference Clause 14.2.3.2 is not in 802.3u.

SuggestedRemedy

Replace "802.3u" with "802.3"

Proposed Response

Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per suggested remedy.

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CI 36 SC 36.2.4.7 P 36.9 L 42-45

Comment Type E Comment Status A

Statement that "all other undefined ordered_sets may result in a false carrier...." is misleading. False carrier is a specific case where a device is in idle and gets a non-idle codeword that is not an /S/. This paragraph is talking about what happens when a k28.5 is followed by an invalid codeword, which is really nothing or little to do with false carrier.

SuggestedRemedy

Delete sentence starting with "All other undefined ordered set may result in false carrier...." or reword.

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. The following changes are made:

Delete the second paragraph of 36.2.4.7.

Add to the end of 36.2.4.12 the following sentence:

"An ordered set which consists of two code_groups, the first of which is /K28.5/ and the second of which is a data code_group other than /D21.5/ or /D2.2/, shall be treated as an /l/ ordered_set."

Changed 36.7.4.1.4 PICS entry OS1 to reference 36.2.4.12 instead of 36.2.4.7.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

Comment ID 117 Topic

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CI 36 SC 36.2.4.9 P 36.15 L 47-55

Comment Type E Comment Status A

Second paragraph points out that a comma code can be generated across word boundaries with a /K28.7/ + /other specific codes/. While this statement is true, it is misleading/confusing because the Clause 36 protocol wants to avoid such a situation for synchronization reasons.

SuggestedRemedy

Either delete paragraph in Lines 52-55 or add a sentence to the end stating that "A comma across the boundaries of any two adjacent code_groups will cause loss of synchronizaiton, so ordered_sets which produce this result are not allowed."

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Add the following sentence to the end of the last paragraph of 36.2.4.9:

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CI 36 SC 36.2.5.1.3 P 36.22 L 30

Comment Type E Comment Status A

Replace "rx_Config_Reg" with "rx_Config_Reg<D15:D0>".

SuggestedRemedy

Proposed Response Status W

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. Corrected per comment text.

Comment ID 212 Topic

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CI 36 SC 36.2.5.2.2, figure P 36.30 L

Comment Type E Comment Status A

Simplify the transition condition from state EPD_CHECK_END to EXTEND_ERR to= "ELSE" $\,$

SuggestedRemedy

Simplify the transition condition from state EPD_CHECK_END to EXTEND_ERR to= "ELSE" $\,$

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per the suggested remedy.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected

[&]quot;A comma across the boundaries of any two adjacent code_groups may cause code_group realignment (see 36.3.2.4)."

```
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CI 36
            SC 36.2.5.2.6
                                    P 33
                                                 L 31
 Comment Type E
                                 Comment Status A
   The 2_good_cgs is not well specified. Also, the 2_good_cgs needs to be
   4 good cas to detect misaliged /C/.
SuggestedRemedy
   Delete the function 2 good cgs from figure 36-9 and 36.2.5.1.4.
   In 36.2.5.2.6. lines 14 and 15, replace "two using the
   2 good cas function" with "four code groups".
   Delete all transitions on 2 good cgs.
   Add new counter subclause and to it, new counter good cgs.
   To figure 36.9 add the states: SYNC ACQUIRED 2A, SYNC ACQUIRED 3A, and
   SYNC ACQUIRED 4A.
   Add a transition from state SYNC ACQUIRED 2A to state SYNC ACQUIRED 3 on the
   condition:
       PMA UNITDATA.indicate *
         rx code group =3D /COMMA/ * rx even =3D TRUE +
        rx code group =3D /INVALID/
   Add a transition from state SYNC_ACQUIRED_2A to state SYNC_ACQUIRED_1 on
   the condition:
       PMA_UNITDATA.indicate * good_cgs =3D 3 *
       not (
           rx code group =3D /COMMA/ * rx even =3D TRUE +
           rx_code_group =3D /INVALID/
   Add a transition from state SYNC ACQUIRED 2A to state SYNC ACQUIRED 2A on
   the condition ELSE.
   Add a transition from state SYNC_ACQUIRED2 to state SYNC_ACQUIRED_2A on the
   condition ELSE.
   In state SYNC_ACQUIRED_2, add an assignment good_cgs <=3D 0.
   In state SYNC ACQUIRED 2A, add the assignments good cgs <=3D good cgs + 1=
    and
   rx even <=3D!rx even.
   In state SYNC_ACQUIRED_2A, add the message SYNC_UNITDATA.indicate.
   Add a transition from state SYNC ACQUIRED 3A to state SYNC ACQUIRED 4 on the
   condition:
       PMA UNITDATA.indicate *
        rx_code_group =3D /COMMA/ * rx_even =3D TRUE +
          TR/technical required T/technical E/editorial
Type:
Comment: X/received D/dispatched for consideration A/accepted R/rejected
Response: O/open W/written S/sent to commentor for review C/closed U/unsatisfied Z/withdrawn
```

```
rx_code_group =3D /INVALID/
   Add a transition from state SYNC ACQUIRED 3A to state SYNC ACQUIRED 2 on
       PMA UNITDATA.indicate * good cas =3D 3 *
       not (
           rx_code_group =3D /COMMA/ * rx_even =3D TRUE +
           rx code group =3D /INVALID/
   Add a transition from state SYNC ACQUIRED 3A to state SYNC ACQUIRED 3A on
   the condition ELSE.
   Add a transition from state SYNC ACQUIRED3 to state SYNC ACQUIRED 3A on the
   condition ELSE
   In state SYNC_ACQUIRED_3, add an assignment good_cgs <=3D 0.
   In state SYNC ACQUIRED 3A, add the assignments good cgs <=3D good cgs + 1=
    and
   rx even <=3D !rx even.
   In state SYNC_ACQUIRED_3A, add the message SYNC_UNITDATA.indicate.
   Add a transition from state SYNC ACQUIRED 4A to state LOSS OF SYNC on the
   condition:
       PMA UNITDATA.indicate *
        rx_code_group =3D /COMMA/ * rx_even =3D TRUE +
        rx code group =3D /INVALID/
   Add a transition from state SYNC_ACQUIRED_4A to state SYNC_ACQUIRED_3 on
       PMA_UNITDATA.indicate * good_cgs =3D 3 *
       not (
           rx code group =3D /COMMA/ * rx even =3D TRUE +
           rx code group =3D /INVALID/
   Add a transition from state SYNC ACQUIRED 4A to state SYNC ACQUIRED 4A on
   the condition ELSE.
   Add a transition from state SYNC ACQUIRED4 to state SYNC ACQUIRED 4A on the
   condition ELSE.
   In state SYNC_ACQUIRED_4, add an assignment good_cgs <=3D 0.
   In state SYNC ACQUIRED 4A, add the assignments good cgs <=3D good cgs + 1=
    and
   rx even <=3D !rx even.
   In state SYNC_ACQUIRED_4A, add the message SYNC_UNITDATA.indicate.
Proposed Response
                                Response Status C
   Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by
   motion by P802.3z Task Force on July 9,1997 in Maui, HI.
   Accepted per suggested remedy.
```

Comment ID 207 Topic

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CI 36 SC 36.2.5.2.6 P 36.32 L 16

Comment Type E Comment Status A

Redundant "shall": identical to statement on line 3

"The PCS shall implement the Synchronization process as depicted in figure 36-9 including compliance with the associated state variables as specified in 36.2.5.1."

SuggestedRemedy

strike sentance on line 16 quoted above.

modify line 3 to read:

"The PCS shall implement the Synchronization process as depicted in figure=

36-9 including compliance with the associated state variables as specified in 36.2.5.1."

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Agreed. An alternate remedy was selected as follows:

In 36.2.5.2.6, delete the first sentence in the first paragraph and move the last sentence to become the first sentence.

In line 11, replace "shall enter" with "enters".

Comment ID 214 Topic

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CI 36 SC 36.3.1.5, figure 3 P 36.30 L

Comment Type E Comment Status A

Remove extraneous term "mr_page_rx <=3D FALSE" from states AN_RESTART and ABILITY_DETECT.

SuggestedRemedy

Remove extraneous term "mr_page_rx <=3D FALSE" from states AN_RESTART and ABILITY_DETECT.

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per the suggested remedy.

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CI 36 SC 36A.1 P 36A.1 L 31

Comment Type E Comment Status A

There are two periods at the end of the line.

SuggestedRemedy

Strike the redundant period.

Proposed Response Status C

Response generated by IEEE P802.3z PCS Sub-Task Force and accepted by motion by P802.3z Task Force on July 9,1997 in Maui, HI. Accepted per suggested remedy.

Type: TR/technical required T/technical E/editorial

Comment: X/received D/dispatched for consideration A/accepted R/rejected