Cl **00**   *SC*   *P*   *L*   **#** **7**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
"b/s" and "bps" are intermingled as a unit of the bit rate.

SuggestedRemedy

Proposed Response   *Response Status* **C**
ACCEPT IN PRINCIPLE.
Scrub the document carefully during the SB review.
Preferred unit is b/s.

Cl **22**   *SC* **22.2.4.1.12**   *P* **19**   *L* **24**   **#** **15**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **A**
The text:
"A management entity shall only set bit 0.1 to a logic one after it has enabled an associated
OAM sublayer (Clause 57) or this device is a 1000BASE-PX-D PHY."
doesn't seem to make sense. I believe that it is missing an "if".

SuggestedRemedy
Change to:
"A management entity shall only set bit 0.1 to a logic one after it has enabled an associated
OAM sublayer (Clause 57) or if this device is a 1000BASE-PX-D PHY."

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **30**   *SC* **30.11.1.1.34**   *P* **57**   *L* **5354**   **#** **12**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **R**
The Errored Frames field line should follow the Errored Frame Threshold field line to align
with the c57 fields sequence, simlar to all the other event objects here.

SuggestedRemedy
Swap lines 53 and 54 and renumber the INTEGERS.

Proposed Response   *Response Status* **C**
REJECT.
The change is unneccesary.
Suggest that the commenter resubmit on SB, if he desires.

Cl **30**   *SC* **30.11.1.1.37**   *P* **58**   *L* **5254**   **#** **13**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **R**
The Errored Symbols field line should follow the Errored Symbol Threshold field line to
align with the c57 fields sequence, similar to the other objects described here.

SuggestedRemedy
Swap lines 52 and 54 and renumber the INTEGERS. Also, delete blank line 53.

Proposed Response   *Response Status* **C**
REJECT.
The change is unneccesary.
Suggest that the commenter resubmit on SB, if he desires.

Cl **30**   *SC* **30.5.1.1.13**   *P* **43**   *L* **47**   **#** **17**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **R**
Dual entry not necessary.
It is the custom in this standard when a management count rate scales with speed to only
put in a single example. Two examples do not appear to be necessary here.

SuggestedRemedy
Delete the higher speed example

Proposed Response   *Response Status* **C**
REJECT.
The two examples are necessary because the underlying FEC systems happen to produce
the indications at the same rate even though they do not necessarily scale. (NOTE: The
underlying FEC mechanism is different between 10PASS-TS and 1000BASE-PX). The
commenter is invited to submit more detailed additional text on SB review. The commenter
might consult with Piers Dawe for assistance on crafting a new comment

Cl **30**   *SC* **30.5.1.1.4**   *P* **42**   *L* **53**   **#** **16**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **A**
The text:
"the enumeration "available" maps to the condition where at the PCS at least one PMI is operationally linked,"
needs commas to set off "at the PCS".

SuggestedRemedy
Change to:
"the enumeration "available" maps to the condition where, at the PCS, at least one PMI is operationally linked;
(These clauses are almost entire sentences. They should probably be set off with semi-colons instead of commas.

Proposed Response   *Response Status* **C**
ACCEPT.
The commenter is invited to submit a proposal for grammatically restructuring the clause during SB, in consultation with the IEEE staff editor

---

Cl **45**   *SC*   *P* **72**   *L* **26**   **#** **18**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **A**
The text:
"if the remote discovery register is clear (000000000000$_{16}$)"
is a little suspicious to me
(acknowledged that this comment is out of scope)
12 digits of zeros where the digits are supposed to be base 16 means to me that the register is 12X4=48 bits.
If this is correct then is this the clearest way to depict it?

SuggestedRemedy
Use a more conventional notation that matches what is used in the rest of the 802.3 standard.

Proposed Response   *Response Status* **C**
ACCEPT.
Change text "if the remote discovery is all zeroes."

Cl **45**   *SC* **45.2.2.15**   *P* **88**   *L* **22**   **#** **19**
Thompson, Geoffrey   Nortel

Comment Type **T**   *Comment Status* **A**
RE:
10G WIS Line BIP Errors (Register 2.57 and 2.58)
Insert the following sentence at the end of the subclause:
NOTE - These registers do not follow the behavior described in 45.2 for 32-bit counters.
This text should not be necessary. If an implementor can not tell the difference between a register and a counter then all hope is lost long before they get this far.

SuggestedRemedy
Delete this new text and the equivalent a few lines above.
If something along this line is actually felt to be necessary then the text to distinguish registers and counters should go into 45.2

Proposed Response   *Response Status* **C**
ACCEPT IN PRINCIPLE.
"Make the editorial change in 42.2.2.14 and 42.2.2.15:
Change note to read ""NOTE - These counters . . ."""

Cl **56**   *SC* **56.1.3**   *P* **158**   *L* **34**   **#** **20**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **R**
The statement:
1000BASE-LX10 is interoperable with 1000BASE-LX on single-mode and multi-mode fiber, and offers greater reach than 1000BASE-LX on single-mode fiber

SuggestedRemedy
Suggest something a little more explanatory, perhaps:
"1000BASE-LX10, through tighter transmitter tolerancing, is interoperable with 1000BASE-LX on single-mode and multi-mode fiber, and offers greater reach than 1000BASE-LX on single-mode fiber."

Proposed Response   *Response Status* **C**
REJECT.
The sentence is factually correct as it is.

Cl **57**   *SC* **57.2.12**   *P* **177**   *L* **39**   **#** **10**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**
Suspect incorrect cross-reference to "22.2.4.3.12".

SuggestedRemedy
Replace cross-reference to "22.2.4.3.12" with "22.2.4.1.12".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **57**   *SC* **57.5.3.1**   *P* **199**   *L* **7**   **#** **11**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**
Suspect incorrect cross-reference to "30.11.1.1.29".

SuggestedRemedy
Change cross-reference "30.11.1.1.29" to "30.11.1.1.37".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **58**   *SC* **58.8.1.1**   *P* **229**   *L* **19**   **#** **8**
Thomas Dineen   Dineen Consulting

Comment Type **T**   *Comment Status* **A**
The value of the Type / Length field (05ffh or 1535d) provided in the example frames shown in Tables 58-12 and 58-13 is neither a valid length or type value.

SuggestedRemedy
I would suggest that the valid length of the payload would be appropriate for this context per Clause 3 Section 3.2.6.

Proposed Response   *Response Status* **C**
ACCEPT IN PRINCIPLE.
Add a sentence to the note on page 227, line 30: "Not all field values constitute valid values for correct network operation"

Cl **58**   *SC* **58.8.1.1**   *P* **231**   *L* **18**   **#** **9**
Thomas Dineen   Dineen Consulting

Comment Type **T**   *Comment Status* **R**
In the column labeled "item" at line 18 there are two issues:
1) the term "idle" is inappropriate and should be replaced with "IFG"
2) The value of 35 is incorrect and should be 34.

SuggestedRemedy
1) Replace "idle" with "IFG"

2) Replace value 35 with 34.

Proposed Response   *Response Status* **C**
REJECT.
The number of octets is correct for an IPG of 14 (see line 42, P.227). Idle is correct terminology, the gap between the frames is larger than the minimum IPG.

Cl **61**   *SC* **61.1.4.1.1**   *P* **321**   *L* **35-38**   **#** **14**
Shimon Muller   Sun Microsystems, Inc

Comment Type **TR**   *Comment Status* **R**
This note was inserted into draft 2.1 as a way of providing support for MAC-PHY Rate Matching in implementations that use a full duplex only MAC. However, at this point this note does more harm than good for the following reasons:

It refers to functionality that has not been defined anywhere. Neither clause 4 nor any of the new clauses specify how IFS stretching can be accomplished in a MAC that operates at 100Mb/s. The only specification for IFS stretching in clause 4 is defined for 10Gb/s operation, which is also the only speed that is allowed to use this mechanism. Also, it is not trivial to extrapolate from the existing clause 4 definition how IFS stretching can be made to work for a 100Mb/s MAC without any further guidance to the implementor.

I therefore believe that in that respect this draft is technically flawed. Either provide a complete definition for IFS stretching at 100Mb/s, or drop this functionality completely. During the previous recirculation ballot I tried to do the former. However, since my comment (#68) was rejected, the next best thing is to do the latter.

SuggestedRemedy
Delete this note and all the other references to full duplex MAC operation for EFM copper.

Proposed Response   *Response Status* **U**
REJECT.

This is informative text and is factually correct. The note makes an observation to provide some guidance to implementers, but does not state any requirements. No interoperability issue arises as a result of the inclusion of this note. While further tutorial information could be provided, as suggested by the balloter in comment #68 made against draft 2.1, the exclusion of such tutorial material does not render the draft incorrect or incomplete. Removing the observation provided by this note would not enhance the draft.

The comment does not require recirculation for the following reasons:
1) It was submitted by a balloter who voted ""Disapprove"" on the previous ballot, thus the balloter's vote does not change.
2) The comment references comment #68 from the previous ballot, which was submitted by the same balloter, and rejected. It can therefore be considered a ""pile on"" to the balloter's own comment.
3) The comment is made against text which did not change between D2.1 and D2.2 (i.e. did not change in the recirculated draft).

Cl **64**   *SC*   *P*   *L*   *#* **1**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
In this clause, "true" and "false" are used to the Boolean value "TRUE" and "FALSE" being used in other clauses.

SuggestedRemedy

Proposed Response   *Response Status* **C**
ACCEPT IN PRINCIPLE.
Capitalization of state variables will be reviewed for consistency during sponsor ballot.

Cl **64**   *SC* **64.1.2**   *P* **452**   *L* **7**   *#* **21**
Thompson, Geoffrey   Nortel

Comment Type **E**   *Comment Status* **A**
Layer diagram is incorrect. Box shown as LLC should be generalized to MAC Client. This seems to be particularly significant as this clause is to satisfy the compatibility with 802.1D bridging. 802.1D bridging is not an LLC MAC Client.

SuggestedRemedy
Change so that it will match the correct diagrams elsewhere in the standard.

Proposed Response   *Response Status* **C**
ACCEPT.
Editor will modify the diagram to generalize "LLC" to "MAC Client" using a representation of "MAC Client" that fits in the space available.

Cl **64**   *SC* **64.2.3.3**   *P* **461**   *L* **51**   *#* **2**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
Unit of size should be "octet" instead of "byte".

SuggestedRemedy
This function returns the size of the sdu in octets.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **64**   *SC* **64.3.4**   *P* **469**   *L* **6**   *#* **3**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
"byte" should be "octet".

SuggestedRemedy
The reference time used for setting the timestamp value shall be the first octet of the MPCPDU frame at time of transmission.

Proposed Response   *Response Status* **C**
ACCEPT.
Also change byte to octet in 64.5.4.2
During sponsor ballet 61A.3 will be examined for consistent use of octet vs byte.

Cl **65**   *SC* **65.2.3.4.4**   *P* **523**   *L* **16**   *#* **4**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
"parity bytes" should be "parity octets".

SuggestedRemedy
A boolean set by the FEC Transmit process to indicate if more parity octets need to be encoded.
Values: TRUE; No more parity octets need to be encoded.
FALSE; More parity octets need to be encoded.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **65**   *SC* **65.2.3.4.5**   *P* **523**   *L* **39**   *#* **5**
Hirano, Ikuya   Japan Radio Co,Ltd.

Comment Type **E**   *Comment Status* **A**
"Reed Solomon (255,239) code" should be "Reed Solomon (255,239,8) code".
"paity bytes" should be "parity octets".

SuggestedRemedy
This function is used to encode the Reed Solomon (255,239,8) code. The encoder encodes the 239 octets data frame and generates 16 parity octets for each data frame.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **65**   *SC* **65.2.3.4.5**   *P* **524**   *L* **44**   **#** **6**

Hirano, Ikuya   Japan Radio Co,Ltd.

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

"Reed Solomon (255,239) code" should be "Reed Solomon (255,239,8) code".

SuggestedRemedy

This function is used to decode the Reed Solomon (255,239,8) code.

Proposed Response   *Response Status* **C**

ACCEPT.

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause   Page 5 of 5

RESPONSE STATUS: O/open   W/written C/closed   U/unsatisfied Z/withdrawn   *Cl* **65**   *SC* **65.2.3.4.5**