Cl **148**   *SC* **148.4.7.1**   *P* **63**   *L* **1**   # 10

Maguire, Valerie   Copperopolis; aff'l w/ CME Consulting and Cisco

Comment Type **E**   *Comment Status* **D**   *Editorial*

The phrase "at any time" is not needed here.

SuggestedRemedy

Replace "If at any time BEACONs cease to be regularly" with "If BEACONs cease to be regularly"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **188**   *SC* **188.5.3**   *P* **90**   *L* **24**   # 11

Maguire, Valerie   Copperopolis; aff'l w/ CME Consulting and Cisco

Comment Type **T**   *Comment Status* **D**   *Editorial*

It's unclear what exactly "the PMA and PCS Receive functions have at most 800 ns from when the first DME symbol after SILENCE is detected to find the 5B boundary, and to synchronize on the DME stream respectively" is requiring.

SuggestedRemedy

Replace "In order to meet the specifications of 188.6.5.1, the PMA and PCS Receive functions have at most 800 ns from when the first DME symbol after SILENCE is detected to find the 5B boundary, and to synchronize on the DME stream respectively."

with "In order to meet the specifications of 188.6.5.1, the PMA and PCS Receive functions must find the 5B boundary and synchronize on the DME stream within 800 ns of when the first DME symbol after SILENCE is detected."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.73.2**   *P* **41**   *L* **1**   # 14

Maguire, Valerie   Copperopolis; aff'l w/ CME Consulting and Cisco

Comment Type **E**   *Comment Status* **D**   *Editorial*

"that" typically refers to a specific subset, while "which" is more commonly used in relative statements to provide extra information not essential to the meaning of the sentence.

SuggestedRemedy

Replace "PHYs, which do not" with "PHYs that do not" (keep text in underline)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**   *SC* **30.17.2.1.1**   *P* **31**   *L* **13**   # 15

Maguire, Valerie   Copperopolis; aff'l w/ CME Consulting and Cisco

Comment Type **E**   *Comment Status* **D**   *Editorial*

Type, by itself, is not a proper noun.

SuggestedRemedy

Replace "indicates the MPD Type" with "indicates the MPD type"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace "indicates the MPD Type" with "indicates the MPD type" on P31, L13

Editor to perform a global review to ensure that 'type' is not capitalized unless it's at the start of the sentence or being used as a proper noun (e.g., Type 0).

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID **15**   Page 1 of 7
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Cl **148**   *SC* **148.4.4.2**   *P* **55**   *L* **9**   # 20

Regev, Alon   Keysight

Comment Type **T**   *Comment Status* **D**   *Editorial*

three state machines seem to have slgihtly different definitions for COL and CRS. It would be good to harmonize these as they refer to the same signals.

Current data in 148.4.4.2:
COL
    The MII signal COL.
    Values: TRUE or FALSE
CRS
    The MII signal CRS.
    Values: TRUE or FALSE
RX_DV
    The MII signal RX_DV.
    Values: TRUE or FALSE
TX_EN
    The MII signal TX_EN.
    Values: TRUE or FALSE

Current data in 148.4.5.2:
COL
    The MII signal COL specified in 22.2.2.12.
CRS
    The MII signal CRS (see 22.2.2.11).
TXD☐
    The MII signals TXD<3:0> specified in 22.2.2.4.
TX_EN
    The MII signal TX_EN specified in 22.2.2.3.
TX_ER
    The MII signal TX_ER specified in 22.2.2.5.

Current data in 148.4.7.2;
COL
    The MII signal COL.
    Values: TRUE or FALSE
COR
    The MII signal COR.
    Values: TRUE or FALSE

SuggestedRemedy

change all 3 locations (148.4.4.2, 148.4.5.2, and 148.4.7.2) to the following defintions (only populate these where used):

COL
    The MII signal COL (see 22.2.2.12).
    Values: TRUE or FALSE
CRS☐

The MII signal CRS (see 22.2.2.11).
    Values: TRUE or FALSE
RX_DV
    The MII signal RX_DV.
    Values: TRUE or FALSE
TXD☐
    The MII signals TXD<3:0> (see 22.2.2.4).
TX_EN
    The MII signal TX_EN.(see 22.2.2.3)
    Values: TRUE or FALSE
TX_ER
    The MII signal TX_ER (see 22.2.2.5)
    Values: TRUE or FALSE

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: There are some extraenous marks following CRS and TXD in the Suggested Remedy that don't belong.)

Align the definitions in 148.4.4.2, 148.4.5.2, and 148.4.7.2 with the following (only populate these where used):

COL
    The MII signal COL (see 22.2.2.12).
    Values: TRUE or FALSE
CRS
    The MII signal CRS (see 22.2.2.11).
    Values: TRUE or FALSE
RX_DV
    The MII signal RX_DV.
    Values: TRUE or FALSE
TXD
    The MII signals TXD<3:0> (see 22.2.2.4).
TX_EN
    The MII signal TX_EN.(see 22.2.2.3)
    Values: TRUE or FALSE
TX_ER
    The MII signal TX_ER (see 22.2.2.5)
    Values: TRUE or FALSE

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID **20**

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CI **148**   *SC* **148.4.7.6**   *P* **67**   *L* **19**   **#** 21

Regev, Alon   Keysight

Comment Type **E**   *Comment Status* **D**   *Editorial*

The multi-level IF-THEN-ELSE-END statement in the TXOP_STATE does not have consistent indentation, making it confusing to read

SuggestedRemedy

```
change
"
IF dplca_txop_id = 0 THEN
 IF short_cnt = soft_aging_cycles THEN
   CLEAR_SOFT_CLAIMS(txop_claim_table)
   CLEAR_SOFT_CLAIMS(txop_claim_table_new)
   short_cnt <= 0
ELSE
short_cnt <= short_cnt + 1
END
IF long_cnt = hard_aging_cycles THEN
txop_claim_table <= txop_claim_table_new
CLEAR_TXOP_TABLE(txop_claim_table_new)
dplca_new_age <= TRUE
long_cnt <= 0
ELSE
long_cnt <= long_cnt + 1
END
END"

to
"
IF dplca_txop_id = 0 THEN
 IF short_cnt = soft_aging_cycles THEN
   CLEAR_SOFT_CLAIMS(txop_claim_table)
   CLEAR_SOFT_CLAIMS(txop_claim_table_new)
   short_cnt <= 0
 ELSE
   short_cnt <= short_cnt + 1
 END

 IF long_cnt = hard_aging_cycles THEN
   txop_claim_table <= txop_claim_table_new
   CLEAR_TXOP_TABLE(txop_claim_table_new)
   dplca_new_age <= TRUE
   long_cnt <= 0
 ELSE
   long_cnt <= long_cnt + 1
 END
END"
```

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Accommodated by comment #80.

Change text in TXOP_END state to:

```
IF dplca_txop_id = 0 THEN
 IF short_cnt = soft_aging_cycles THEN
   CLEAR_SOFT_CLAIMS(txop_claim_table)
   CLEAR_SOFT_CLAIMS(txop_claim_table_new)
   short_cnt <= 0
 ELSE
   short_cnt <= short_cnt + 1
 END

 IF long_cnt = hard_aging_cycles THEN
   txop_claim_table <= txop_claim_table_new
   CLEAR_TXOP_TABLE(txop_claim_table_new)
   dplca_new_age <= TRUE
   long_cnt <= 0
 ELSE
   long_cnt <= long_cnt + 1
 END
END
```

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID **21**   Page 3 of 7
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_Cl_ **188**   _SC_ **188.4.2.2**   _P_ **77**   _L_ **36**   # **22**

Regev, Alon   Keysight

Comment Type **T**   _Comment Status_ **D**   _Editorial_

The defintion of TX_ER is somewhat outdated. TX_ER does not necessarily indicate an errored transmission (errors are indicated if BOTH TX_EN and TX_ER are asserted), but rather it is also used (typically more commonly) for COMMIT, BEACON, and LPI indications

SuggestedRemedy

change
"TX_ER☐
     The TX_ER signal of the MII as specified in 22.2.2.5.
     When set to FALSE it indicates a non-errored transmission.
     When set to TRUE it indicates an errored transmission.
     Values: TRUE or FALSE"

to:
"TX_ER☐
     The TX_ER signal of the MII as specified in 22.2.2.5 and 22.2.2.4.
     When set to TRUE it indicates an errored transmission (if TX_EN is TRUE) or a special indication (if TX_EN is FALSE)
     When set to FALSE it indicates a non-errored transmission and no special incation
     Values: TRUE or FALSE"

altenatively, remove these details from TX_ER (and TX_EN) and refer to clause 22.2.2.4 and 22.2.2.5 which define the behavior.

Note that even though 22.2.2.4 definex TX_EN, I think that TX_ER should also reference this clause as all the indications using combinations of TX_ER and TX_EN is in section 22.2.2.4 and not 22.2.2.5.

Proposed Response   _Response Status_ **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Two Suggested Remedies are proposed. Editors recommend removing the details and refering to 22.2.2.4 and 22.2.2.5 to avoid redefining this signal inadvertently.)

Replace,
"TX_EN
The TX_EN signal of the MII as specified in 22.2.2.3.
When set to FALSE transmission is disabled.
When set to TRUE transmission is enabled.
Values: TRUE or FALSE

TX_ER
The TX_ER signal of the MII as specified in 22.2.2.5.
When set to FALSE it indicates a non-errored transmission.
When set to TRUE it indicates an errored transmission.
Values: TRUE or FALSE"

with,
"TX_EN
The TX_EN signal of the MII as specified in 22.2.2.3.

TX_ER
The TX_ER signal of the MII as specified in 22.2.2.4 and 22.2.2.5."

_Cl_ **30**   _SC_ **30.17.1.1.9**   _P_ **30**   _L_ **23**   # **25**

Zimmerman, George   CME Consulting/ADI,APLgp,Cisco,Marvell,Onsemi,Sor

Comment Type **E**   _Comment Status_ **D**   _Editorial_

"A count of the cumulative energy" - you don't count energy.

SuggestedRemedy

Change "A count of the cumulative energy" to "The value of the counter represents the cumulative energy"

Proposed Response   _Response Status_ **W**

PROPOSED ACCEPT.

_Cl_ **148**   _SC_ **148.4.4.1**   _P_ **54**   _L_ **28**   # **28**

Zimmerman, George   CME Consulting/ADI,APLgp,Cisco,Marvell,Onsemi,Sor

Comment Type **E**   _Comment Status_ **D**   _Editorial_

"The PLCA node should be configured appropriately before transmit functions are enabled to achieve error free operation when D-PLCA is not enabled." reads odd. The condition usually goes first.

SuggestedRemedy

Change "The PLCA node should be configured appropriately before transmit functions are enabled to achieve error free operation when D-PLCA is not enabled." to "When D-PLCA is not enabled, the PLCA node should be configured appropriately before transmit functions are enabled."

Proposed Response   _Response Status_ **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Cl **189**   *SC* **189.1**   *P* **110**   *L* **8**   # 31

Zimmerman, George   CME Consulting/ADI,APLgp,Cisco,Marvell,Onsemi,Sor

Comment Type **E**   *Comment Status* **D**   *Editorial*

The defined entities are listed as MPD & MPSE (in that order), but are described in the reverse order (supply power / draw power).

SuggestedRemedy

Change "These entities allow devices to supply/draw power using the..." to "These entities allow devices to draw power or supply power using the …"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Not necessary to mention power twice.)

Change "These entities allow devices to supply/draw power using the..."

to "These entities allow devices to draw or supply power using the …"

Cl **189**   *SC* **189.1.1**   *P* **110**   *L* **32**   # 32

Zimmerman, George   CME Consulting/ADI,APLgp,Cisco,Marvell,Onsemi,Sor

Comment Type **T**   *Comment Status* **D**   *Editorial*

"that incorporate compliant MPoE TCIs" - we call these "MPIs that are also TCIs" and they are "also compatible" with thir Physical Layer standards.

SuggestedRemedy

Change "DTEs that incorporate compliant MPoE TCIs are compatible …" to "DTEs that incorporate MPIs that are also TCIs are also compatible…"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Not necessary to say 'also' twice.)

Change "DTEs that incorporate compliant MPoE TCIs are compatible …"

to "DTEs that incorporate MPIs that are also TCIs are compatible…"

Cl **148**   *SC* **148.4.7.1**   *P* **62**   *L* **15**   # 49

Jones, Peter   Cisco Systems

Comment Type **E**   *Comment Status* **D**   *Editorial*

Improve text clarity

SuggestedRemedy

Change
"When using D-PLCA with statically assigned IDs, values in the range of 0 to 7 should be use first. "
to
"When using D-PLCA with statically assigned IDs, values in the range of 0 to 7 should be assigned first. "

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **148**   *SC* **148.4.7.3**   *P* **65**   *L* **20**   # 56

Jones, Peter   Cisco Systems

Comment Type **E**   *Comment Status* **D**   *Editorial*

Improve text clarity

SuggestedRemedy

Change
it shall not return an ID greater than the highest HARD claimed in the table, unless there is no ID available less than the highest HARD claimed in the table. If there is no ID available less than the highest HARD claimed in the table, the function will return the next TO immediately
following the highest HARD claimed TO in the table.
to
It returns an available ID less than the highest HARD claimed ID if possible. If not, it returns the next ID after the highest HARD claimed ID.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: 'It' should not be capitalized as it appears at the start of a lettered list.)

Replace, "it shall not return an ID greater than the highest HARD claimed in the table, unless there is no ID available less than the highest HARD claimed in the table. If there is no ID available less than the highest HARD claimed in the table, the function will return the next TO immediately following the highest HARD claimed TO in the table.

With, "it returns an available ID less than the highest HARD claimed ID if possible. If not, it returns the next ID after the highest HARD claimed ID.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Cl **188**　　*SC* **188.4.2.9**　　　　*P* **82**　　*L* **16**　　# 57

Jones, Peter　　　　　　　　　　Cisco Systems

Comment Type **E**　　*Comment Status* **D**　　　　　　*Editorial*

Improve text clarity.
The text says "This sequence notifies the receivers" but it's not clear what it notifies them of.

SuggestedRemedy

Replace "This sequence notifies the receivers" with ""This sequence notifies the receivers of the transmitter jabber event"

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Remove double quotes.)

Replace "This sequence notifies the receivers" with "This sequence notifies the receivers of the transmitter jabber event"

Cl **148**　　*SC* **148.4.4.6**　　　　*P* **58**　　*L* **50**　　# 67

Slavick, Jeff　　　　　　　　　　Broadcom

Comment Type **TR**　　*Comment Status* **D**　　　　　　*Editorial*

The exit transitions from NEXT_TX_OPPORTUNITY to B does a greater than or equal to compare to plca_node_count and it looks like the exit to G does a less than or equal to comparison. If so then which branch are you supposed to take if curID is equal to plca_node_count.

SuggestedRemedy

Change the transition to G to be just a less than compare to plca_node_count.

Proposed Response　　*Response Status* **W**

PROPOSED REJECT.

No change to draft. The Commenter appears to have misread the use of < and underline (to indicate inserted text) as a less than or equal to sign on the exit condition to branch G.

Cl **188**　　*SC* **188.4.2.7**　　　　*P* **81**　　*L* **9**　　# 70

Slavick, Jeff　　　　　　　　　　Broadcom

Comment Type **TR**　　*Comment Status* **D**　　　　　　*Editorial*

"not_done" is not a timer property, just "_done"

SuggestedRemedy

Change "xmit_max_timer_not_done" to "!xmit_max_timer_done" in the ESD -> GOOD_ESD and DATA -> DATA transitions in Figure 188-5 part b

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: No change to Suggested Remedy, but Commenter may wish to submit a Maintenance request to also make this change to Figure 147-5.)

Change "xmit_max_timer_not_done" to "!xmit_max_timer_done" in the ESD -> GOOD_ESD and DATA -> DATA transitions in Figure 188-5 part b

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Cl **45**　　*SC* **45.2.3.72.2**　　　　*P* **40**　　*L* **8**　　# 76

Brandt, David　　　　　　　　　　Rockwell Automation

Comment Type **E**　　*Comment Status* **D**　　　　　　*Editorial*

The loopback path is not stated clearly. PCS has upper and lower interfaces.

SuggestedRemedy

Change from: "PCS shall accept data on the transmit path and return it on the receive path", To: "PCS shall accept data on the transmit path from the MII and return it on the receive path to the MII". Otherwise add "as described in 188.4.3.9"

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Two options are provided in the Suggested Remedy.)

Change from: "PCS shall accept data on the transmit path and return it on the receive path"

To: "PCS shall accept data on the transmit path from the MII and return it on the receive path to the MII".

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID **76**　　　Page 6 of 7
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Cl **188**   *SC* **188.6.4**   *P* **92**   *L* **37**   # 78

Brandt, David   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   *Editorial*

States: "it is recommended that the PHY provide access to TX_CLK". PICS PMAE8 shows Mandatory.

SuggestedRemedy

Change to shall or change PICs to O.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Two Suggested Remedies are provided.)

Replace PICS PMAE8 entry "M" with "O".

Cl **188**   *SC* **188.2**   *P* **72**   *L* **16**   # 109

Law, David   HPE

Comment Type **E**   *Comment Status* **D**   *Editorial*

Suggest that 'Larger PHY count and reach can ...' should read 'Larger PHY count and longer reach can ...'.

SuggestedRemedy

See comment

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **188**   *SC* **188.8**   *P* **96**   *L* **13**   # 110

Law, David   HPE

Comment Type **E**   *Comment Status* **D**   *Editorial*

Suggest that '10BASE-T1M PHYs are designed to operate ...' should read 'The 10BASE-T1M PHY is specified to operate ...'.

SuggestedRemedy

See comment

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID **110**

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