C/ FM SC FM P11 L41 C/ 145 P221 # r05-4 # r05-1 SC 145.3.8.9 L16 Ciena Corporation Anslow, Peter Ciena Corporation Anslow, Peter Comment Type E Comment Status D **Editorial** Comment Type E Comment Status D **Fditorial** The text regarding IEEE Std 802.3.1 is present in both the old version and the new version The IEEE Style manual 16.1 includes: "Within each subclause, notes should be numbered (including IEEE Std 802.3.2) sequentially, i.e., "NOTE 1--", "NOTE 2--", etc." SuggestedRemedy SuggestedRemedy Delete the paragraph "A companion document IEEE Std 802.3.1 describes Ethernet Change the two notes in 145.3.8.9 to be "NOTE 1--" and "NOTE 2--" management information base (MIB) modules for use with the Simple Network Proposed Response Response Status W Management Protocol (SNMP). IEEE Std 802.3.1 is updated to add management capability for enhancements to IEEE Std 802.3 after approval of the enhancements." PROPOSED ACCEPT. Proposed Response Response Status W L50 # r05-5 C/ 145 SC 145.5.3.3.1 P248 PROPOSED ACCEPT. Anslow. Peter Ciena Corporation C/ 30 SC 30.9.1.1.2 P38 L22 # r05-2 Comment Type T Comment Status D DH Anslow, Peter Ciena Corporation PDRequestedPowerValue mode(X) has a detailed description of the meaning of the variable and then a "Values:" entry of "0". Comment Type Ε Comment Status D **Editorial** This is rather confusing without some additional expanation that this is a dual signature The text in the base standard has changed from: field in the single signature section and therefore the value can only be 0. the enumeration "enabled." SuggestedRemedy to: the enumeration "enabled". Add an additional sentence of explanation as per the comment. i.e. the "." has moved outside the guotes. Proposed Response Response Status W However, this is incorrectly being shown as a change in the P802.3bt draft with underline PROPOSED ACCEPT IN PRINCIPLE. and strikethrough font. SuggestedRemedy OBE by 16 Delete the text shown with strikethrough font and remove the underline from: "enabled". C/ 145 SC 145.5.3.3.1 P249 L5 # r05-6 Anslow, Peter Ciena Corporation Proposed Response Response Status W PROPOSED ACCEPT. Comment Type Comment Status D PSEAllocatedPowerValueEcho mode(X) has a description of where it is mapped to and C/ 145 SC 145.2.10 P174 L42 # r05-3 then a "Values:" entry of "0". Anslow, Peter Ciena Corporation This is rather confusing without some additional expanation that this is a dual signature field in the single signature section and therefore the value can only be 0. Comment Type Comment Status D Editorial SuggestedRemedy Table 145-16 now has two items numbered 18 Add an additional sentence of explanation as per the comment. SuggestedRemedy Proposed Response Response Status W Renumber the items from the second 18 onwards to be 19 through 25 PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W PROPOSED ACCEPT. OBE by 16

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 r05-6

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CI 0 SC 0 Ρ # r05-7 Alessi, Julie Comment Type Ε Comment Status D **Editorial** Draft meets all editorial requirements. SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. No changes to draft result from accepting this comment. In addition, no change was requested as the draft meets all editorial requirements. CI 0 SC 0 P1 L2 # r05-8 Anslow, Peter Ciena Corporation Comment Type G Comment Status D **Editorial** Provided that the IEEE SASB approve the IEEE Std 802.3 revision in their meeting on 14 June 2018, the "base\_year" variable should be changed to 2018 throughout the draft. SuggestedRemedy Provided that the IEEE SASB approve the IEEE Std 802.3 revision in their meeting on 14 June 2018, change the "base\_year" variable to 2018 in all of the files in the draft. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.4.2 P200 1 # r05-9 Schneider Flectric Waters. Keith

I accept the response and understand. While I still have some concerns about the increased power, I believe these concerns can be handled within the product standards.

Comment Status D

SuggestedRemedy

Comment Type

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE

Т

The Chair has confirmed with the author that this comment is in reference to i-23. This comment serves to accept the rejection of the original comment which will be closed out of the carried forward unsats. No changes to the draft as a result of accepting this comment.

Cl 145 SC 145.2.8.8 P162 L # [r05-10

Waters, Keith Schneider Electric

Comment Type T Comment Status D

I accept the response and understand. While I still have some concerns about the increased power, I believe these concerns can be handled within the product standards

SuggestedRemedy

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The Chair has confirmed with the author that this comment is in reference to i-22. This comment serves to accept the rejection of the original comment which will be closed out of the carried forward unsats. No changes to the draft as a result of accepting this comment.

C/ 145 SC 145.2.8.7 P162 L # [r05-11]
Waters, Keith Schneider Electric

Comment Type T Comment Status D

I accept the response and understand. While I still have some concerns about the increased power, I believe these concerns can be handled within the product standards

SuggestedRemedy

Proposed Response Status **W** 

PROPOSED ACCEPT IN PRINCIPLE.

The Chair has confirmed with the author that this comment is in reference to i-21. This comment serves to accept the rejection of the original comment which will be closed out of the carried forward unsats. No changes to the draft as a result of accepting this comment.

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 r05-11

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Cl 79 SC 79.3.2.6c.3 P94 L24 # r05-12
Yseboodt, Lennart Signify

Comment Type T Comment Status D

OOS

The PSE power pairs ext subfield is intended to indicate the currently active powering mode of the PSE (4-pair, Alt A only, or Alt B only).

However the text does not clearly indicate this needs to be a status field, rather than a static 'capability' field.

Looking at the legacy variant of this, which points back to 30.9.1.1.4 aPSEPowerPairs, it is clear this should be a status field.

### SuggestedRemedy

Replace "The 'PSE power pairs ext' field shall contain an integer value for PSE power pairs defined by 145.2.4."

by

"The 'PSE power pairs ext' field shall contain the current powering status of the PSE, as defined in Table 79-6e."

Proposed Response Status W

PROPOSED ACCEPT.

 CI 79
 SC 79.3.2.6e
 P96
 L32
 # [705-13]

 Yseboodt, Lennart
 Signify

 Comment Type
 T
 Comment Status
 D
 LLDP

oos

For the 'PSE maximum available power value' it is not stated what a PD must set this field to.

### SuggestedRemedy

Append at the end of the paragraph of 79.3.2.6e:

"A PD shall set this field to zero."

In addition, change sentence on line 34 to the following:

"When connected to a dual-signature PD this value refers to the total amount of power available at the PI, even though power is allocated separately on a per pairset basis."

Update PICS.

Proposed Response Status W

PROPOSED ACCEPT.

Comment Type T Comment Status D PSE OOS

A PSE that measures if a PD requests Autoclass must do the IClass measurement after 88ms, but before the end of the class event.

This measurement time is named TClass ACS.

In Table 145--14, no maximum is provided for TClass\_ACS.

This can be fixed by changing the maximum to be T\_LCE.

#### SuggestedRemedy

Change Table 145-14, item9, TClass\_ACS, maximum to be "T\_LCE"

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

Change Table 145-14, item9, TClass ACS, maximum to be "T LCE"

and on page 169, line 47 change "after Tclass ACS" to "within Tclass ACS"

Update PICS accordingly.

Cl 145 SC 145.3.4 P205 L5 # r05-15
Yseboodt, Lennart Signify

Comment Type T Comment Status D

"with any resistance greater than 45 kOhm across the other Mode and one pair connected to the positive potential of the given Mode"

We want to indicate that one pair of the "other Mode" gets connected to the positive of the "given Mode".

### SuggestedRemedy

Change as follows:

"with any resistance greater than 45 kOhm across the other Mode and one pair \*\*of the other Mode\*\* connected to the positive potential of the given Mode"

Proposed Response Status W

PROPOSED ACCEPT.

PΠ

DLL

C/ 145

Darshan, Yair

Cl 145 SC 145.5.3.3.1 P248 L48 # [r05-16]
Yseboodt, Lennart Signify

Comment Type E Comment Status D

Comment Type T Comment Status D

SC 145.3.9

The variable PDRequestedPowerValue\_mode(X) can only have zero as a valid value because this is a single-signature PD state diagram.

That is a bit weird and might be confused with an editorial error.

# SuggestedRemedy

Replace the description of PDRequestedPowerValue\_mode(X) as follows:

"Integer that indicates the PD requested power value for a dual-signature PD on Mode X in units of 0.1 W.

This variable is set to 0 by the single-signature PD power control state diagram. This variable is mapped into the aLldpXdot3LocPDRequestedPowerValueA and aLldpXdot3LocPDRequestedPowerValueB attribute (30.12.2.1.17a and 30.12.2.1.17b). Values: 0"

Similarly, change on p249.line 1 the description of PSEAllocatedPowerValueEcho\_mode(X) to:

"This variable is updated by the PD state diagram. This variable maps into the aLldpXdot3LocPSEAllocatedPowerValueA and aLldpXdot3LocPSEAllocatedPowerValueB attribute (30.12.2.1.18a and 30.12.2.1.18b).

\*\*This variable is set to 0 by the single-signature PD power control state diagram.\*\* Values: 0"

Proposed Response Response Status W PROPOSED ACCEPT.

CI 145 SC 145.7.3.2 P275

Yseboodt, Lennart Signify

Comment Type **E** Comment Status **D**The requirements for PD33 and PD34 have been deleted.

SuggestedRemedy

Delete PD33 and PD34 from the PICS table.

Proposed Response Status W

PROPOSED ACCEPT.

# UPDATE COMMENT AND REMEDY:

During the email discussions over the reflector, some argue that unless we have something broken, it is better not to make changes at this point of time (in order not to draw new comments and finish the project on time) even if it is informative link in the PD MPS section to Irev in the PSE section.

P222

L49

# r05-18

So here is a broken spec argument with interoperability concern with legacy devices. Legacy PDs that worked well with Type 1 and 2 PSEs may have issue with MPS when operating in 3-pair mode in Type 3 and Type 4 PSEs.

Example: when a PD Type 1 or 2 with ideal diode bridge that has the backfeed issue in 3-pair mode don't want to be powered (but still stay physically connected) it generates e.g. MPS=3.9mA. In Type 1 and 2 PSE it will be disconnected as the spec requires. When this PD will be connected to Type 3 or 4 operating at 3-pair mode, Irev=1.3mA max may change the MPS to be higher than 4mA and the PD will not be disconnected as required by the spec.

Now we have two issues:

(1) The legacy PD will not work as expected.

(2) PD designers may miss the effect of Irev on Iport\_MPS since PD section has no clue about Irev and it is complex to figure out the dependencies without minimum hint/guidance or link to Irev in the PSE section.

### SuggestedRemedy

Add the following text after line 49:

Option 1:

"Irev can change the value of IPort MPS. See 145.2.10.4, 145.3.8.8."

Option 2

"IPort MPS depends on the value of Irev. See 145.2.10.4. 145.3.8.8."

#### Option 3:

Change from (Clause 145.3.2 page 190 lines 4-5): "A PD shall meet the requirements of detection (145.3.4), PD signature configuration (145.3.5), and PD classification (145.3.6) in any valid 2-pair configuration, as defined in Table 145-20."

To: "A PD shall meet the requirements of detection (145.3.4), PD signature configuration (145.3.5) and PD classification (145.3.6) in any valid 2-pair configuration, as defined in Table 145-20. PD shall meet Iport\_MPS requirements in any valid 2-pair configuration, as defined in Table 145-20"

Proposed Response Response Status W

PROPOSED REJECT.

Page 223, line 34 states: "Powered PDs that no longer require power, and identify the PSE as Type 3 or Type 4, shall remove the

current draw component and may remove the impedance components of the MPS.".

This clearly says that a PD must remove all of its current to make sure it is disconnected. If a PD does this, Irev will have no effect on disconnect.

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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# r05-17

**Fditorial** 

Comment ID r05-18

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C/ 145 SC 145.2.10.3 P176 L24 # r05-19

Darshan, Yair

Comment Type T Comment Status D

UPDATE COMMENT AND REMEDY:

In clause 145 we have:

"145.2.10.3 Voltage transients

A PSE shall maintain an output voltage no less than VTran-2P for transient conditions lasting more than 30 us and less than 250 us, and meet the requirements of 145.2.10.9. [SPACE]

\*\*Transients less than 30 us in duration may cause the voltage at the PI to fall below VTran-2P\*\*. See 145.3.8.6 for PD transient requirements. Transients lasting more than 250 us shall meet the VPort PSE-2P specification."

The problem is with the marked text (\*\*). This text was meant to tell us what could be the voltage value for transients below 30usec but it looks like it is going to start new requirement but it doesn't and it shouldn't (it sends the reader to "see 145.3.8.6 for PD transient requirements" where PD is clearly defines what to do with transients <30usec which is to continue to operate if >=34V so the reader may think that now the PSE is going to specify requirements below 30usec as well).

I suggest to append these two paragraphs so when it is red, it is clear that we have 1st requirement, informative text, 2nd requirement as we have in clause 33.

This change can't delay us since it is as in clause 33.

## SuggestedRemedy

Append line 24 to the end of line 22 to read:

"A PSE shall maintain an output voltage no less than VTran-2P for transient conditions lasting more than 30 us and less than 250 us, and meet the requirements of 145.2.10.9. Transients less than 30 us in duration may cause the voltage at the PI to fall below VTran-2P. See 145.3.8.6 for PD transient requirements. Transients lasting more than 250 us shall meet the VPort PSE-2P specification."

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove paragraph break on p176, line 22.

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

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