C/ 01 SC 1.4 P17 L26 # Cl 33 SC 33.2.7.5 P63 **L**5 Darshan, Yair Microsemi Corporation Darshan, Yair Microsemi Corporation Comment Type ER Comment Status X Comment Type Ε Comment Status X In the Iport definition the word "power" is redundant and not correct since we define Iport Figure 33-14: The 50A label is located too far from the lport axis. current SuggestedRemedy SuggestedRemedy Move the 50A label closer to the Iport axis. Delete the word "power" Proposed Response Response Status O Proposed Response Response Status O Cl 33 SC 33.2.9 P66 L31 CI 33 SC 33.2.5.1 P**53** L38 Darshan, Yair Microsemi Corporation Microsemi Corporation Darshan, Yair Comment Type Comment Status X Comment Status X Comment Type GR After last changes in figure 3-11, the text "overload current, short circuit" is not relevant. Error in the Table number. SuggestedRemedy Voltage and current during detection are in Table 33-4 and not in Table 33-11. The 2nd occurrence of "Table 33-11" that addresses the PSE output capacitance is correct. Delete "overload current, short circuit" from lines 31-32. SuggestedRemedy Proposed Response Response Status O Change line 38 (1st occurrence of "Table 33-11") from Table 33-11 to Table 33-4. Proposed Response Response Status O Cl 33 SC 33.3.7.3 P**78** L47 Darshan, Yair Microsemi Corporation C/ 33 SC 33.2.5.1 P53 L38 # 3 Comment Status X Comment Type Darshan, Yair Microsemi Corporation The stability test conditions are true for 33.3.7.3 and also for 33.3.7.1 lines 36-38 so the label of 33.3.7.3 should reflect this fact. Comment Type TR Comment Status X SuggestedRemedy The detection voltage and current is specified in Table 33-4 and not in Table 33-11. During detection, only the detection time and the PSE capacitance during detection are Change from "33.3.7.2.1 System stability test conditions" specified in Table 33-11. "33.3.7.2.1 System stability test conditions during startup and steady state operation" SuggestedRemedy Proposed Response Response Status O Change from Table 33-11 to Table 33-4.

Proposed Response

Response Status O

SC 25.5.4.5 CI 33 SC 33.2.4.4 P45 # 7 CI 25 P23 L35 # 10 L19 Cisco Systems, Inc. Darshan, Yair Microsemi Corporation Schindler, Frederick Comment Type ER Comment Status X Comment Type TR Comment Status X The reason for this variable was "PI ramp voltage". This PICS is incomplete. FYI: A 10⁹ bits take 1.000 s to transfer (~17 minutes). SuggestedRemedy SuggestedRemedy Change from "PI voltage" Add to the end of this PICS, to: "PI ramp voltage" with a bit error ratio of less than 10^-9 after link reset completion. Proposed Response Response Status O Proposed Response Response Status O C/ 00 SC 0 **P0** L0 Cl 33 SC 33.2.4.4 P46 **L8** # 11 Turner, Michelle Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status X Comment Type Comment Status X ER This document has met all editorial requirements. Because Table 33-11 was had "Static" removed and dynamic was not ever shown the text SuggestedRemedy "static and dynamic operating ranges" may confuse the reader. SuggestedRemedy Proposed Response Response Status O Strike occurrence of the phrase: "static and dynamic operating ranges" throughout out the document. SC 25.5.4.4 Cl 25 P22 / 33 Proposed Response Response Status 0 Schindler, Frederick Cisco Systems, Inc. Comment Type TR Comment Status X Cl 33 SC 33.2.4.4 P46 # 12 L30 This PICS is incomplete. Schindler, Frederick Cisco Systems, Inc. FYI: A 10⁹ bits take 1,000 s to transfer (~17 minutes). Comment Type ER Comment Status X SuggestedRemedy This is not clear. Add to the end of this PICS, with a bit error ratio of less than 10^-9 after link reset completion. SuggestedRemedy Proposed Response Response Status O Replace "is operating beyond" with "has successfully completed." Proposed Response Response Status O

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

Cl 33 SC 33.2.4.4 P46 L48 # 13 Cl 33 SC 33.2.7 P60 L19 # 16 Schindler, Frederick Cisco Systems, Inc. Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status X Comment Type ER Comment Status X The accepted change was not made--see D4.0 comment 129. This term does not exist. SuggestedRemedy SuggestedRemedy Add the following sentence immediately after the variable name. Replace "Vport min " with "Vport PSE min." A variable that is set in an implementation-dependent manner. Proposed Response Response Status O Proposed Response Response Status O Cl 33 SC 33.3.4 P74 L32 C/ 33 SC 33.2.6.2 P58 L35 # 14 Schindler, Frederick Cisco Systems, Inc. Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status X Comment Type ER Comment Status X Replace "23.75 kohms to 36.25 kohms" with Rdetect. Vport was replaced by "Vport_PSE." SuggestedRemedy Vport PSE is the allowable range of operation shown in table 33-11. VPSE is the present PSE PI value. See problem statement. SuggestedRemedy Proposed Response Response Status O Replace occurrences of "Vport" referring to the PSE PI voltage range with "Vport PSE." Replace occurrences of "Vport" referring to the PD MDI voltage range with "Vport PD." Include Figure 33-25, and the PICs in this replacement policy. Cl 33 SC 33.3.5.1 P**75** L33 # 18 Proposed Response Response Status O Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status X What is drawing the power is not clear. P**25** C/ 30 SC 30.2.5 L53 # 15 Schindler, Frederick SuggestedRemedy Cisco Systems, Inc. Add to the end of this sentence. Comment Type TR Comment Status X . Pclass PD. IEEE 802.3BC is transfering material from IEEE802.1AB to cover LLDP. As a result the Proposed Response Response Status O requirement for a package is retained. See page 14 of IEEE 802.3BC, LldpXdot3LocSystemsGroup managed object class (30.12.2). Type 2 PD are required to

support LLDP for power classification. The package require places an unnecessary burden

Create new packages by spliting up the existing IEEE 802.3 packages. This should be done in IEEE 802.3at and 802.3bc. The clause 33 power should exist by itself.

Response Status O

on PD.
SuggestedRemedy

Proposed Response

 CI 33
 SC 33.4.4
 P86
 L28
 # 19

 Schindler, Frederick
 Cisco Systems, Inc.

Comment Type TR Comment Status X

This compliance requirement is not worst-case and may not ensure interoperability.

SuggestedRemedy

Place Rch in series with figure 33-23 Vsource. Replace the existing text with: For a PD, the PI that require power shall be terminated as illustrated in Figure 33-23. Vsourcel in Figure 33-23, is adjusted to 36 Vdc and 57 Vdc, while measuring Ecm_out the PI.

Instruct the Editor to adjust affect PICs to match these requirements.

On page 78, table 33-18, item 10, additional information column, add: "Balanced source impedance; Rch."

See a related comment on PIs, page 87.

Proposed Response Status O

C/ 33 SC 33.4.4 P87 L3 # 20

Schindler, Frederick Cisco Systems, Inc.

The accepted action on comment 211 for D4.0 was not made.

SuggestedRemedy

Comment Type TR

"Change 'PI A' to read 'PI' and delete 'PI B' from the figure, join the two dotted lines to form one single dotted line."

Complete the above by joining the dotted line and removing the lower "PI" text.

Scan for text referring to this figure and "PIs" and change "PIs" to "PI."

Comment Status X

This is related to a comment made on page 86.

Proposed Response Status O

C/ 33 SC 33.6.3.5

P104

L18

21

Schindler, Frederick Cisco Systems, Inc.

Comment Type ER Comment Status X

The accept solution to comment 165 on D4.0 was not made.

SuggestedRemedy

ER Editor: make this change after making other chagnes to PD SM. In the INITIALIZE state, add TempVar <- PD_INITIAL_VALUE change "MirroredPSEAllocatedPowerValue CHANGED" to "MirroredPSEAllocatedPowerValue != TempVar"

Proposed Response

Response Status O

Cl 33 SC 33.2.7.4 P62 L18 # 22

Darshan, Yair Microsemi Corporation

Comment Type E Comment Status X

33.2.7.4 is part of Table 33-11 item, Continuous curent however the content is addressing the ac waveforme of this current so simple connecting sentence will help to clarify the intent

SuggestedRemedy

1. Add the following sentence prior to line 19:

"In addition to Icon as specified in Table 33-11,"

2. Line 19: Change from "The PSE shall ..."

to "the PSE shall ..."

Proposed Response Status O

Cl 33 SC 33.2.4.1 P44 L12 # 23

Landry, David Silicon Laboratories

Comment Type E Comment Status X

"... it initiates and successfully complete a new ..." is grammatically incorrect

SuggestedRemedy

Make "complete" plural

Proposed Response Response Status O

SC 33.2.6.2 Cl 33 SC 33.2.4.4 P46 **L50** # 24 Cl 33 P58 L32 # 28 Silicon Laboratories Landry, David Silicon Laboratories Landry, David Comment Type Ε Comment Status X Comment Type Ε Comment Status X "This variables is provided ..." is grammatically incorrect Font too small for, "This measurement is referenced ..." SuggestedRemedy SuggestedRemedy Make "variables" singular Increase font size to match the rest of the paragraph. Proposed Response Response Status O Proposed Response Response Status O Cl 33 SC 33.2.5.2 P54 L2 # 25 Cl 33 SC 33.3.4 P73 L27 Landry, David Silicon Laboratories Landry, David Silicon Laboratories Comment Type E Comment Status X Comment Type Ε Comment Status X Equation 33-2 improperly places braces around the entire equation to denote units. Equation 33-8 should have braces indicating units SuggestedRemedy SuggestedRemedy Adjust braces to only encapsulate only the formula portion. Add braces around formula, ohms as units Proposed Response Proposed Response Response Status O Response Status O C/ 33 SC 33.2.5.2 P55 **L1** # 26 C/ 33 SC 33.3.4 P**74** L10 # 30 Silicon Laboratories Landry, David Silicon Laboratories Landry, David Comment Status X Comment Status X Comment Type E Comment Type T Table 33-6 splits an enumerated list from its lead-in. This hinders readability. In table 33-14, Voltage at the PI entry, "2.7V" does not have enough significant digits. SuggestedRemedy SuggestedRemedy Make Table 33-6 appear at the end of 33.2.5.3 (Rejection criteria). Change "2.7" to "2.70" Proposed Response Response Status O Proposed Response Response Status O C/ 33 P**74** C/ 33 SC 33.2.5.5 P55 L38 SC 33.3.4 # 31 L31 Silicon Laboratories Landry, David Silicon Laboratories Landry, David Comment Type E Comment Status X Comment Type T Comment Status X Extraneous use of "then" in sentence ("... then it may optionally ..."). In figure 33-18, VI slope annotation does not denote the correct min and max values for the slope per table 33-14. SugaestedRemedy SuggestedRemedy Strike "then." Change 23.75 to 23.7 and 26.25 to 26.3 Proposed Response Response Status O Proposed Response Response Status O

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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C/ 00 SC 00 P127 # 32 C/ 30 SC 30.2.5 P0L38 LO Cisco Systems, Inc. Landry, David Silicon Laboratories Vetteth, Anoop Comment Type Е Comment Status X Comment Type TR Comment Status X The reference to 802.1AB is not correct, in that the year contains "XX" 802.1AB mandates unnecessary requirement to implement the complete LLDP Local and Remote Package when the entity is in the relevant transmit/receive mode. All attributes in SuggestedRemedy the packages need to be implemeted even when the corresponding TLVs are not Add an editor's note (to be removed prior to publication) that the year should be updated by sent/received. This does not make sense. the staff editor after 802.1ABREV is ratified. SuggestedRemedy Proposed Response Response Status W Split the LLDP Local/Remote Packages into 4 distinct Local/Remote packages: EDITORS NOTE: comment against 79.4, had to change to 00 to facilitate import. Configuration Status, Power vis MDI, Link Aggregation and Frame Size. Update Page 14, lines 24-26 of IEEE 802.3bc D2.1 to reflect this change. Update the last paragraph page 25 of IEEE 802.3at D4.1 such that both classification and power via MDI packages are CI 33 SC 33.6.3.2 P99 L34 # 33 mandated with the entity implements data link layer classification Landry, David Silicon Laboratories Proposed Response Response Status 0 Comment Type Ε Comment Status X Indentation of "pd max power" is different from instance below SuggestedRemedy C/ 30 SC 30.2.5 P28 L46 Vetteth, Anoop Move "pd max power" so that it lines up with sentence above Cisco Systems, Inc. Proposed Response Response Status O Comment Type TR Comment Status X The attributes aLldpXdot3LocResponseTime, aLldpXdot3LocReady and aLldpXdot3LocReducedOperationPowerValue do not belong to this package since they are not fields in the LLDP TLV. # 34 Cl 33 SC 33.6.3.3 P101 1 52 Landry, David Silicon Laboratories SuggestedRemedy Move them to the appropriate oPSE/oPD managed object class. Comment Type Ε Comment Status X Proposed Response Reference to Table 33-27 is incorrect. Table 33-27 doesn't even exist. Response Status O SugaestedRemedy Change "Table 33-27" to "Table 33-23" SC 1.4 C/ 01 P17 L46 Proposed Response Response Status O Vetteth, Anoop Cisco Systems, Inc. Comment Status X Comment Type TR

SuggestedRemedy

Change Vport to VPSE here. Also change the definition to "<snip> Voltage at the PSE PI <snip>".

During the last commenting cycle two comments were accepted. One was to define Vport

in section 1.4 and another was to change Vport all over the document to VPSE.

Strike definition of VPSE in Eq 33-3 and 33-4 and reference Section 1.4

For sake of completeness, define VPD also in Section 1.4. Strike the present definition of VPD from page 71 line 26 and reference Section 1.4

Proposed Response Response Status O

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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35

36

37

CI 33 SC 33.3.7.1 P78 L36 # 38 Vetteth, Anoop Cisco Systems, Inc. Comment Type TR Comment Status X The PD should turn on without oscillation when fed by the entire Vport PD voltage range. SuggestedRemedy Vport PSE min with series resistance = Rch; Vport PSE max with series resistance = 0 ohms and Rch. Proposed Response Response Status O CI 33 SC 33.2.4.4 P46 L49 # 39 Cisco Systems, Inc. Vetteth, Anoop Comment Type ER Comment Status X Typo "This variables" should be "This variable" SuggestedRemedy Change this Proposed Response Response Status O Cl 33 SC 33.6.3.3 P102 / 1 # 40 Cisco Systems, Inc. Vetteth, Anoop Comment Type ER Comment Status X The object names in Table 33-23 are wrong

Both PSE and PD entities have two object classes: oLldpXdot3LocSystemsGroup and

Move the attributes to appropriate row PSE+oLldpXdot3LocSystemsGroup, PD+oLldpXdot3LocSystemsGroup, PSE+oLldpXdot3RemSystemsGroup and

Response Status O

SuggestedRemedy

Proposed Response

Add a column for entity: PSE and PD.

PD+oLldpXdot3RemSystemsGroup

oLldpXdot3RemSystemsGroup

Cl 33 SC 33.6.3.4 P104 L18 # 41 Cisco Systems, Inc. Vetteth, Anoop Comment Type TR Comment Status X Transition from RUNNING to PD POWER REVIEW. We moved away from using CHANGED SuggestedRemedy Replace MirroredPSEAllocatedPowerValue CHANGED with MirroredPSEAllocatedPowerValue != TempVar Proposed Response Response Status O Cl 33 SC 33.6.3.4 P104 L12 Vetteth, Anoop Cisco Systems, Inc. Comment Type Comment Status X ER Transition from RUNNING to PD POWER REALLOCATION 2. Typo "PDMaxPowerValuei" SuggestedRemedy Fix this Proposed Response Response Status O

Cl 33 SC 33.6.4.1 P105 L20 # 43

Vetteth, Anoop Cisco Systems, Inc.

Comment Type TR Comment Status X

There are several minor corrections to this subclause based on the changes to the SM during the last commenting cycle

SuggestedRemedy

Change the sub-clause to the following:

"A PSE is considered to be in sync with the PD when the value of the

PSEAllocatedPowerValue matches the value of MirroredPSEAllocatedPowerValueEcho. When the PSE is not in sync with the PD, the PSE is only allowed to decrease its power allocation.

During normal operation, the PSE is in the RUNNING state. If the PSE wants to initiate a change in the PD allocation, the local_system_change is asserted and the PSE enters the PSE POWER REVIEW state where a new power allocation value PSE_New_Value is computed. If the PSE is in sync with the PD or if PSE_New_Value is smaller than PSEAllocatedPowerValue, it enters the MIRROR UPDATE state where PSE_New_Value is assigned to PSEAllocatedPowerValue. It also updates PDRequestedPowerValueEcho and returns to the RUNNING state.

If the PSE machine sees a change to the previously stored

MirroredPDRequestedPowerValue, it recognizes a request by the PD to change its power allocation. It entertains this request only when it is in sync with the PD. The PSE examines the request by entering the PD POWER REQUEST state. A new power allocation value PSE_New_Value is computed in this state. It then enters the MIRROR UPDATE state where PSE_New_Value is assigned to PSEAllocatedPowerValue. It also updates PDRequestedPowerValueEcho and returns to the RUNNING state."

Proposed Response Status O

Cl 33 SC 33.6.4.2 P105 L37 # 44

Vetteth, Anoop Cisco Systems, Inc.

Comment Type TR Comment Status X

There are several minor corrections to this subclause based on the changes to the SM during the last commenting cycle

SuggestedRemedy

A PD is considered to be in sync with the PSE when the value of the

PDRequestedPowerValue matches the value of MirroredPDRequestedPowerValueEcho. The PD is not allowed to change its maximum power draw or the requested power value when it is not in sync with the PSE.

During normal operation the PD is in the RUNNING state. If the PD sees a change to the previously stored MirroredPSEAllocatedPowerValue or local_system_change is asserted by the PD so as to change its power allocation, it enters the PD POWER REVIEW state. In this state, the PD evaluates the change and generates an updated power value called PD_New_Value. If PD_New_Value is smaller than the PDMaxPowerValue, it updates the PDMaxPowerValue in the PD POWER REALLOCATION 1 state. The PD state machine finally enters the MIRROR UPDATE state where PD_New_Value is assigned to PDRequestedPowerValue. It also updates PSEAllocatedPowerValueEcho and returns to the RUNNING state.

In the above flow if PD_New_Value is greater than PDMaxPowerValue then the PD state machine waits until it is in sync with the PSE and the PSE grants the higher power value. When this condition arises the PD enters the PD POWER REALLOCATION 2 state. In this state the PD state machine assigns PDMaxPowerValue to PDRequestedPowerValue and returns to the RUNNING state.

Proposed Response Status O

Cl 33 SC 33.5.1.1.2 P94 L34 # 45

Vetteth, Anoop Cisco Systems, Inc.

Comment Type TR Comment Status X

Second sentence of first paragraph is not correct. Bit 12.14 does not show support. It shows status of the variable pse_dll_enabled

SuggestedRemedy

Strike it.

Proposed Response Status O

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

CI 33 SC 33.5.1.1.2 P94 L41 # 46 C/ 30 SC 30.2.5 P26 L2 # 49 Cisco Systems, Inc. Jones, Chad Cisco Systems, Inc. Vetteth, Anoop Comment Type TR Comment Status X Comment Type TR Comment Status X Only a PSE that supports DLL and allows the capability to be disabled is bound by the It is mandatory to implement the complete local and remote LLDP package in 802.1AB requirement on the last sentence. even when the TLVs are not sent. SuggestedRemedy SuggestedRemedy A PSE that supports Data Link Layer classification and supports the ability to disable Split the local and remote packages. Proposed Response Response Status O Proposed Response Response Status O CI 33 SC 33.8.2.4 P110 L19 CI 33 SC 33.3.7.2 P**78** L49 # 50 Cisco Systems, Inc. Jones, Chad Cisco Systems, Inc. Vetteth, Anoop Comment Status X Comment Type TR Comment Type TR Comment Status X Comment 185 and 216 from D4.0 was not completely implemented. "When the PD is fed What classification is this - DLL or PL by VPort PD min to VPort PD max" -- this should be Vport PSE in the two spots. SuggestedRemedy SuggestedRemedy Clarify this change to "When the PD is fed by VPort_PSE min to VPort_PSE max" Proposed Response Response Status O Proposed Response Response Status O P115 Cl 33 SC 33.8.3.2 / 18 # 48 Vetteth, Anoop Cisco Systems, Inc. Comment Type TR Comment Status X Value/Comment says Ihild min. This should be Ihold max

SuggestedRemedy
Fix this
Proposed Response

Response Status O