C/ 00 SC 0 P**0** L0 # 8 C/ 01 SC 1.4 P17 L46 # 37 Turner, Michelle Vetteth, Anoop Cisco Systems, Inc. Comment Status X Comment Status X Comment Type ER Comment Type TR This document has met all editorial requirements. 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. SuggestedRemedy SuggestedRemedy Change Vport to VPSE here. Also change the definition to "<snip> Voltage at the PSE PI Proposed Response Response Status O 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 C/ 00 SC 00 P127 L38 # 32 Landry, David Silicon Laboratories Proposed Response Response Status O Comment Type E Comment Status X The reference to 802.1AB is not correct, in that the year contains "XX" C/ 25 P**22** SC 25.5.4.4 L33 SuggestedRemedy Schindler, Frederick Cisco Systems, Inc. Add an editor's note (to be removed prior to publication) that the year should be updated by Comment Type TR Comment Status X the staff editor after 802.1ABREV is ratified. This PICS is incomplete. Proposed Response Response Status W FYI: A 10⁹ bits take 1,000 s to transfer (~17 minutes). EDITORS NOTE: comment against 79.4, had to change to 00 to facilitate import. SuggestedRemedy Add to the end of this PICS. C/ 01 SC 1.4 P17 1 26 with a bit error ratio of less than 10^-9 after link reset completion. Darshan, Yair Microsemi Corporation Proposed Response Response Status 0 Comment Type ER Comment Status X In the loort definition the word "power" is redundant and not correct since we define loort current Cl 25 SC 25.5.4.5 P23 L35 # 10 SuggestedRemedy Schindler, Frederick Cisco Systems, Inc. Delete the word "power" Comment Type TR Comment Status X Proposed Response Response Status O This PICS is incomplete. FYI: A 10^9 bits take 1,000 s to transfer (~17 minutes). SuggestedRemedy Add to the end of this PICS. with a bit error ratio of less than 10^-9 after link reset completion. Proposed Response Response Status O

C/ 30 SC 30.2.5 P٥ L0 # 35 C/ 30 SC 30.2.5 P28 L46 # 36 Vetteth, Anoop Cisco Systems, Inc. Vetteth, Anoop Cisco Systems, Inc. Comment Status X Comment Type TR Comment Type TR Comment Status X 802.1AB mandates unnecessary requirement to implement the complete LLDP Local and The attributes aLldpXdot3LocResponseTime, aLldpXdot3LocReady and Remote Package when the entity is in the relevant transmit/receive mode. All attributes in aLldpXdot3LocReducedOperationPowerValue do not belong to this package since they are the packages need to be implemeted even when the corresponding TLVs are not not fields in the LLDP TLV. sent/received. This does not make sense. SuggestedRemedy SuggestedRemedy Move them to the appropriate oPSE/oPD managed object class. Split the LLDP Local/Remote Packages into 4 distinct Local/Remote packages: Proposed Response Response Status O 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 Cl 33 SC 33.2.4.1 P44 L12 mandated with the entity implements data link layer classification Landry, David Silicon Laboratories Proposed Response Response Status O Comment Type Comment Status X "... it initiates and successfully complete a new ..." is grammatically incorrect P**25** C/ 30 SC 30.2.5 / 53 # 15 SuggestedRemedy Schindler, Frederick Cisco Systems, Inc. Make "complete" plural Comment Type TR Comment Status X Proposed Response Response Status O IEEE 802.3BC is transfering material from IEEE802.1AB to cover LLDP. As a result the 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 Cl 33 SC 33.2.4.4 P45 L19 on PD. Darshan, Yair Microsemi Corporation SuggestedRemedy Comment Type ER Comment Status X Create new packages by spliting up the existing IEEE 802.3 packages. This should be The reason for this variable was "PI ramp voltage". done in IEEE 802.3at and 802.3bc. The clause 33 power should exist by itself. SuggestedRemedy Proposed Response Response Status O Change from "PI voltage"

to: "PI ramp voltage"

Proposed Response

Comment Type TR Comment Status X

It is mandatory to implement the complete local and remote LLDP package in 802.1AB - even when the TLVs are not sent.

P26

Cisco Systems, Inc.

SuggestedRemedy

C/ 30

Jones, Chad

Split the local and remote packages.

SC 30.2.5

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: Clause, Subclause, page, line

L2

49

C/ **33** SC **33.2.4.4**

Response Status O

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C/ 33 SC 33.2.4.4 P46 L30 # 12 Cl 33 SC 33.2.4.4 P46 L50 # 24 Schindler, Frederick Cisco Systems, Inc. Landry, David Silicon Laboratories Comment Type ER Comment Status X Comment Type Comment Status X Ε This is not clear. "This variables is provided ..." is grammatically incorrect SuggestedRemedy SuggestedRemedy Replace "is operating beyond" with Make "variables" singular "has successfully completed." Proposed Response Response Status O Proposed Response Response Status O Cl 33 SC 33.2.4.4 P46 **L8** CI 33 SC 33.2.4.4 P46 L48 # 13 Schindler, Frederick Cisco Systems, Inc. Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status X Comment Type ER Comment Status X Because Table 33-11 was had "Static" removed and dynamic was not ever shown the text The accepted change was not made--see D4.0 comment 129. "static and dynamic operating ranges" may confuse the reader. SuggestedRemedy SuggestedRemedy Add the following sentence immediately after the variable name. Strike occurrence of the phrase: A variable that is set in an implementation-dependent manner. "static and dynamic operating ranges" throughout out the document. Proposed Response Response Status O Proposed Response Response Status O CI 33 SC 33.2.4.4 P46 L49 # 39 C/ 33 SC 33.2.5.1 P53 L38 Cisco Systems, Inc. Vetteth, Anoop Darshan, Yair Microsemi Corporation Comment Status X Comment Type ER Comment Type TR Comment Status X Typo "This variables" should be "This variable" The detection voltage and current is specified in Table 33-4 and not in Table 33-11. SuggestedRemedy During detection, only the detection time and the PSE capacitance during detection are Change this specified in Table 33-11. Proposed Response Response Status O SuggestedRemedy Change from Table 33-11 to Table 33-4. Proposed Response Response Status O

C/ 33 SC 33.2.5.1 P53 L38 # 2 Cl 33 SC 33.2.5.5 P55 L38 # 27 Darshan, Yair Microsemi Corporation Landry, David Silicon Laboratories Comment Status X Comment Type Comment Status X Comment Type GR Error in the Table number. Extraneous use of "then" in sentence ("... then it may optionally ..."). Voltage and current during detection are in Table 33-4 and not in Table 33-11. SuggestedRemedy The 2nd occurrence of "Table 33-11" that addresses the PSE output capacitance is correct. Strike "then." 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 33.2.6.2 P58 L32 Landry, David Silicon Laboratories SC 33.2.5.2 P54 L2 Cl 33 # 25 Comment Type Ε Comment Status X Landry, David Silicon Laboratories Font too small for, "This measurement is referenced ..." Comment Type E Comment Status X SuggestedRemedy Equation 33-2 improperly places braces around the entire equation to denote units. Increase font size to match the rest of the paragraph. SuggestedRemedy Proposed Response Response Status O Adjust braces to only encapsulate only the formula portion. Proposed Response Response Status O Cl 33 SC 33.2.6.2 P58 L35 Cisco Systems, Inc. Schindler, Frederick C/ 33 SC 33.2.5.2 P55 L1 # 26 Comment Type ER Comment Status X Landry, David Silicon Laboratories Vport was replaced by "Vport PSE." Comment Type E Comment Status X Vport PSE is the allowable range of operation shown in table 33-11. Table 33-6 splits an enumerated list from its lead-in. This hinders readability. VPSE is the present PSE PI value. SuggestedRemedy SuggestedRemedy Make Table 33-6 appear at the end of 33.2.5.3 (Rejection criteria). 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." Proposed Response Response Status O Include Figure 33-25, and the PICs in this replacement policy. Proposed Response Response Status O

C/ 33 SC 33.2.7 P60 L19 # 16 Cl 33 SC 33.2.9 P66 L31 Schindler, Frederick Cisco Systems, Inc. Darshan, Yair Microsemi Corporation Comment Type ER Comment Status X Comment Type Comment Status X This term does not exist. After last changes in figure 3-11, the text "overload current, short circuit" is not relevant. SuggestedRemedy SuggestedRemedy Replace "Vport_min " with "Vport_PSE_min." Delete "overload current, short circuit" from lines 31-32. Proposed Response Proposed Response Response Status O Response Status O Cl 33 SC 33.2.7.4 P62 L18 # 22 Cl 33 SC 33.3.4 P73 L27 Darshan, Yair Microsemi Corporation Landry, David Silicon Laboratories Comment Type E Comment Status X Comment Type Ε Comment Status X 33.2.7.4 is part of Table 33-11 item, Continuous curent however the content is addressing Equation 33-8 should have braces indicating units the ac waveforme of this current so simple connecting sentence will help to clarify the intent SuggestedRemedy SuggestedRemedy Add braces around formula, ohms as units 1. Add the following sentence prior to line 19: Proposed Response Response Status O "In addition to Icon as specified in Table 33-11," 2. Line 19: Change from "The PSE shall ..." to "the PSE shall ..." Cl 33 SC 33.3.4 P**74** L10 # 30 Proposed Response Response Status O Landry, David Silicon Laboratories Comment Type T Comment Status X C/ 33 SC 33.2.7.5 P63 L5 # 4 In table 33-14, Voltage at the PI entry, "2.7V" does not have enough significant digits. Darshan, Yair Microsemi Corporation SuggestedRemedy Comment Type Comment Status X Ε Change "2.7" to "2.70" Figure 33-14: The 50A label is located too far from the Iport axis. Proposed Response Response Status O SuggestedRemedy Move the 50A label closer to the Iport axis. Cl 33 SC 33.3.4 P**74** L31 # 31 Proposed Response Response Status O Silicon Laboratories Landry, David Comment Type T Comment Status X In figure 33-18, VI slope annotation does not denote the correct min and max values for the slope per table 33-14. SuggestedRemedy Change 23.75 to 23.7 and 26.25 to 26.3 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: Clause, Subclause, page, line

Cl **33** SC **33.3.4** Page 5 of 9 4/26/2009 6:47:13 AM

C/ 33 SC 33.3.4 P**74** L32 # 17 Cl 33 SC 33.3.7.2 P**78** L49 # 50 Schindler, Frederick Cisco Systems, Inc. Jones. Chad Cisco Systems, Inc. Comment Type ER Comment Status X Comment Status X Comment Type TR Replace "23.75 kohms to 36.25 kohms" with Rdetect. Comment 185 and 216 from D4.0 was not completely implemented. "When the PD is fed by VPort PD min to VPort PD max" -- this should be Vport PSE in the two spots. SuggestedRemedy SuggestedRemedy See problem statement. 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 Cl 33 SC 33.3.5.1 P75 L33 # 18 Cl 33 SC 33.3.7.3 P**78** L47 Schindler, Frederick Cisco Systems, Inc. Microsemi Corporation Darshan, Yair Comment Type ER Comment Status X Comment Type Comment Status X What is drawing the power is not clear. The stability test conditions are true for 33.3.7.3 and also for 33.3.7.1 lines 36-38 so the SuggestedRemedy label of 33.3.7.3 should reflect this fact. Add to the end of this sentence, SuggestedRemedy , Pclass_PD. Change from "33.3.7.2.1 System stability test conditions" Proposed Response Response Status O "33.3.7.2.1 System stability test conditions during startup and steady state operation" Proposed Response Response Status O Cl 33 SC 33.3.7.1 P78 / 36 # 38 Vetteth, Anoop Cisco Systems, Inc. Cl 33 SC 33.4.4 P86 / 28 # 19 Comment Type TR Comment Status X Schindler, Frederick Cisco Systems, Inc. The PD should turn on without oscillation when fed by the entire Vport PD voltage range. Comment Status X Comment Type TR SuggestedRemedy This compliance requirement is not worst-case and may not ensure interoperability. Vport_PSE min with series resistance = Rch; Vport_PSE_max with series resistance = 0 ohms and Rch. SuggestedRemedy Proposed Response Response Status O 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 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

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: Clause, Subclause, page, line

Cl **33** SC **33.4.4**

Response Status O

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SC 33.6.3.2 C/ 33 SC 33.4.4 P87 L3 # 20 Cl 33 P99 L34 # 33 Schindler, Frederick Cisco Systems, Inc. Landry, David Silicon Laboratories Comment Type TR Comment Status X Comment Type Comment Status X The accepted action on comment 211 for D4.0 was not made. Indentation of "pd max power" is different from instance below SuggestedRemedy SuggestedRemedy "Change 'PI A' to read 'PI' and delete 'PI B' from the figure, join the two dotted lines to form Move "pd max power" so that it lines up with sentence above one single dotted line." Proposed Response Response Status O 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." This is related to a comment made on page 86. Cl 33 SC 33.6.3.3 P101 L52 Proposed Response Response Status O Landry, David Silicon Laboratories Comment Type Ε Comment Status X CI 33 SC 33.5.1.1.2 P94 L34 # 45 Reference to Table 33-27 is incorrect. Table 33-27 doesn't even exist. Cisco Systems, Inc. Vetteth, Anoop SuggestedRemedy Comment Status X Comment Type TR Change "Table 33-27" to "Table 33-23" Second sentence of first paragraph is not correct. Bit 12.14 does not show support. It Proposed Response Response Status O shows status of the variable pse dll enabled SuggestedRemedy Strike it. Cl 33 SC 33.6.3.3 P102 L1 Proposed Response Response Status O Vetteth, Anoop Cisco Systems, Inc. Comment Type ER Comment Status X The object names in Table 33-23 are wrong CI 33 SC 33.5.1.1.2 P94 L41 # 46 SuggestedRemedy Vetteth, Anoop Cisco Systems, Inc. Add a column for entity: PSE and PD. Comment Status X Comment Type TR Both PSE and PD entities have two object classes: oLldpXdot3LocSystemsGroup and Only a PSE that supports DLL and allows the capability to be disabled is bound by the oLldpXdot3RemSystemsGroup requirement on the last sentence. Move the attributes to appropriate row PSE+oLldpXdot3LocSystemsGroup, PD+oLldpXdot3LocSystemsGroup, PSE+oLldpXdot3RemSystemsGroup and SuggestedRemedy PD+oLldpXdot3RemSystemsGroup A PSE that supports Data Link Layer classification and supports the ability to disable Proposed Response Response Status O Proposed Response Response Status O

C/ 33 SC 33.6.3.4 P104 L12 # 42 Vetteth, Anoop Cisco Systems. Inc. Comment Type ER Comment Status X Transition from RUNNING to PD POWER REALLOCATION 2. Typo "PDMaxPowerValuei" SuggestedRemedy Fix this Proposed Response Response Status O C/ 33 SC 33.6.3.4 P104 L18 # 41 Vetteth, Anoop Cisco Systems, Inc.

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 Status O

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 33.6.4.1 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 33.8.2.4 P110 L19 # 47

Vetteth, Anoop Cisco Systems, Inc.

Comment Type TR Comment Status X
What classification is this - DLL or PL

SuggestedRemedy
Clarify this

Proposed Response Status O

Cl 33 SC 33.8.3.2 P115 L18 # 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 Status O