C/ 104 SC 104.1 P 19 L 6 # 23 C/ 104 SC 104.1.4 P 21 L 4 # 48 Law. David HP I td Dove. Daniel Dove Networking Solut Comment Type Comment Status A Comment Type TR Т Comment Status A It doesn't seem correct that a 'Power Interface (PI)' is an 'optional entity' since it is an Inconsistent capitalization; interface, not an entity, and it isn't an option on its own since a PSE or PI always has a PI, SuggestedRemedy although in soem cases the PI may be not be physically instantiated. Search and Replace "single-pair" with "Single-Pair", also S&R "Single-pair" SuggestedRemedy Response Response Status C Suggest that the first sentence of the first paragraph of subclause 104.1 Overview be changed to read 'This clause defines the functional and electrical characteristics of two ACCEPT IN PRINCIPLE. optional power entities, a Powered Device (PD) and Power Sourcing Equipment (PSE), for use with supported Ethernet physical layers.'. Repeat of comment 47. Response Response Status C P 21 C/ 104 SC 104.2 L 21 # 132 ACCEPT. Dove. Daniel Dove Networking Solut Comment Type TR Comment Status D C/ 104 SC 104.1.1 P 19 L 32 # 45 Dove, Daniel Dove Networking Solut I have a concern about putting Link Segment first as it calls for the various system classes to define critical parameters, but you have not defined the system classes yet. Comment Status A Comment Type TR SuggestedRemedy Should there be a reference/citation to SELV? Move it behind the system class info. SuggestedRemedy Proposed Response Response Status Z Reference IEC 62282-5-1, ed. 2.0 (2012-09)? REJECT. Response Response Status C ACCEPT IN PRINCIPLE. This comment was WITHDRAWN by the commenter. Delete 104.1.1 C/ 104 SC 104.2 P 21 L 29 # 43 P 19 C/ 104 SC 104.1.1 L 38 # 46 HP I td Law. David Dove, Daniel **Dove Networking Solut** Comment Type T Comment Status A Comment Type TR Comment Status A It is not clear to me what the '(a)' and '(b)' in the third row of Table 104-1 is in reference to. The term "largely unaffected" may draw concerns in WG ballot. SuggestedRemedy SuggestedRemedy Please clarify. Can we state "will continue to meet BER and other performance requirements"? Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Replace subclass row with 'Class Code' row and delete SCCP from row header. OBE by comment 45. See comment #112.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **104** SC **104.2** Page 1 of 12 10/16/2015 6:16:42 AM

C/ 104 SC 104.2 P 21 L 29 # 112 C/ 104 SC 104.3.1 P 22 L 18 # 39 Wienckowski. Natalie General Motors Law. David HP I td Comment Status A Comment Type T Comment Type E Comment Status A Table 104-1: Do the "(a)" and "(b)" refer to the "A" and "B" system types defined in Subclause 104.3.1 'types' states that '... there are two types of PSEs: a type A PSE ... a 104.1.4? If they do change "(a)" to "A" and "(b)" to "B" in the column headings. If they do type B PSE ... A type A+B ...'. Similarly subclause 104.4.1 'PD types' states that 'There are not, change "(a)" to "(i)" and "(b)" to "(ii)" or some other designation that cannot be two types of PDs: a type A ... a type B PD ... A type A+B ...'. in both cases there seem to confused with the types. be three. A. B and A+B. SuggestedRemedy SuggestedRemedy See options in Comment. Reword as three types, or clarify that a PD or PSE can be both a Type A and a Type B. Response Response Response Status C Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. OBE by comment #43. OBE by comment #84. C/ 104 P 22 L 15 # 133 C/ 104 P 27 SC 104.3 SC 104.3.1 L 18 # 42 Law, David HP Ltd Dove, Daniel **Dove Networking Solut** Comment Type TR Comment Status A Comment Type T Comment Status R "no longer required" does not prevent application of power/voltage to the PD Wouldn't a type A PSE that is compatible with a 100BASE-T1 PHY not also be compatible with a 1000BASE-T1 PHY, while a type B PSE would only be compatible with 1000BASE-SuggestedRemedy T1 PHYs? replace "no longer required" with "not to be applied". SuggestedRemedy Response Response Status C See comment. ACCEPT IN PRINCIPLE. Response Response Status C Delete sentence on line 10. and 'In addition' of next sentence. REJECT. No it is not. C/ 104 SC 104.3.1 P 22 L 16 # 70 P 23 C/ 104 SC 104.3.3 L 12 # 91 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type T Comment Status A Comment Type TR Comment Status A This subclause is redundant with 104.1.4 fault detected variable definition needs to be expanded to support faults during sleep. SuggestedRemedy SuggestedRemedy Delete 104.3.1 Add '...or if the PSE is in a current limiting mode for at least TCUT.' Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Replace sublcause text with "For PoDL systems there are three types of PSEs. Type A. Adopt new text regarding faults during sleep on page 12 of gardner_3bu_1_1015.pdf. Type B, and Type A+B consistent with 104.1.4."

Cl 104 SC 104.3.3 P 26 L 10 # 92

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status A

The potential exists for the PSE to source VSLEEP into a short indefinitely during the IDLE state

SuggestedRemedy

Add fault_detected arc out of the PSE IDLE state.

Response Status C
ACCEPT IN PRINCIPI F

Adopt page 7 from gardner_3bu_1_1015 with editorial license.

C/ 104 SC 104.3.3.3 P 23 L 1 # 5 UNH-IOL

Comment Type E Comment Status A

All variables should explicitly state the meaning of their possible values.

For example: "option detect ted

This variable indicates if detection can be performed by the PSE during the ted_timer

interval.

Values:FALSE:Do not perform detection during ted_timer interval.

TRUE:Perform detection during ted timer interval."

-from page 631 of 802.3-2012 standard

SuggestedRemedy

Populate the meaning of values for variables in subclauses 104.3.3.3 and 104.4.3.3.

Response Status C

ACCEPT IN PRINCIPLE.

Adopt text from chabot 3bu 3 1015.pdf.

C/ 104 SC 104.3.3.3 P 23 L 12 # 15
Law. David HP Ltd

Comment Type T Comment Status A

The only fault defined for the variable 'fault_detected' is overload, and therefor the only condition that can result in the entry to the 'ERROR' state in the state diagram is an overload.

SuggestedRemedy

Suggest that either the variable 'fault_detected' be renamed 'overload' and the state 'ERROR' be renamed 'OVERLOAD' or addition conditions be added that result in 'fault_detected' being set 'true' such as a short circuit condition.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change ERROR state to OVERLOAD state. FAULT_DETECTED becomes OVERLOAD_DETECTED.

See comment #91.

Cl 104 SC 104.3.3.3 P 23 L 24 # [135

Dove, Daniel Dove Networking Solut

Comment Type T Comment Status A

This may be too general of a statement. There are other sources of fault that may not cause this specific signal, right?

SuggestedRemedy

I don't have a specific recommendation other than to ensure this text covers all cases, or is specificly accurate.

Response Status C

ACCEPT IN PRINCIPLE.

OBE by 15.

Comment Type E Comment Status A

"A Boolean variable indicating that the PD is requesting full power at the PI or an external wakeup request has been received by the PSE and that the PSE shall forward the request to the PD."

is confusing. The Shall only seems to apply to the external wakeup request, and this sentence makes it difficult to write the PICS item.

SuggestedRemedy

Change:

"A Boolean variable indicating that the PD is requesting full power at the PI or an external wakeup request has been received by the PSE and that the PSE shall forward the request to the PD."

To:

"A Boolean variable indicating that the PD is requesting full power at the PI or an external wakeup request has been received by the PSE. If an external wakeup request has been received by the PSE, it shall forward the request to the PD."

OR

Change:

"A Boolean variable indicating that the PD is requesting full power at the PI or an external wakeup request has been received by the PSE and that the PSE shall forward the request to the PD."

To:

""A Boolean variable indicating that the PD is requesting full power at the PI or an external wakeup request has been received by the PSE."

and move

"If an external wakeup request has been received by the PSE, it shall forward the request to the PD."

to the text for the external wakeup variable.

Response Status C

ACCEPT IN PRINCIPLE.

OBE by comment #115.

C/ 104 SC 104.3.3.3 P 24 L 45 # 3

Chabot, Craig UNH-IOL

Comment Type E Comment Status A

The text refers to section 104.3.6.4. This section does not appear to apply to any of the text describing the wakeup detected variable.

SuggestedRemedy

Remove "See 104.3.6.4"

01

Reference appropriate section.

Response Status C

ACCEPT.

OBE by comment #115.

Cl 104 SC 104.3.3.5 P 25 L 28 # 40

Law, David HP Ltd

Comment Type E Comment Status A

The 'PD_information_byte' function points states it is a variable that contains the '... type and class of the PD.' And provides a pointer to Table 104-8 '... for a description of the content' however Table 104-8 then states for the 'Power class' see Table 104-1.

SuggestedRemedy

Suggest a direct pointer to Table 104-1 for 'Power class'.

Response Status C

ACCEPT IN PRINCIPLE.

Adopt text from stewart 3bu 1 1015.pdf

C/ 104 SC 104.3.3.5 P 26 L 1 # 138

Dove, Daniel Dove Networking Solut

Comment Type ER Comment Status A

There is no subclause identified for the state diagram itself. It shows up in the functions subclause.

SuggestedRemedy

Add a sublcause for the state diagram

Response Status C

ACCEPT.

Add Subclause 104.3.3.6 State Diagram. Do same for PD state diagram '104.4.3.5'.

C/ 104 SC 104.3.3.5 P 26 L 1 # 139 C/ 104 SC 104.3.6 P 28 L 13 # 140 Dove. Daniel Dove Networking Solut Dove. Daniel Dove Networking Solut Comment Type TR Comment Status A Comment Type Comment Status A TR Should Fault Detected=FALSE be asserted here? TBD in table SuggestedRemedy SuggestedRemedy Add Fault Detected=FALSE All TBDs must be removed prior to D2.0. I don't have the replacement value, just wanted to identify this point. Search & Insert values for all TBDs. Response Response Status C Response Response Status C ACCEPT. ACCEPT IN PRINCIPLE. Use <= instead of =. Add Overload detected <= FALSE in the IDLE state. OBE by comment 100. # 100 C/ 104 SC 104.3.4.1 P 28 L 7 C/ 104 P 29 SC 104.3.6 L 46 # 116 Linear Technology Cor Gardner, Andrew Gardner, Andrew Linear Technology Comment Type TR Comment Status A Comment Type TR Comment Status A The max value for Tdet is TBD. The range of Icut is too wide. SuggestedRemedy SuggestedRemedy See gardner_3bu_x_1015 presentation. See gardner_3bu_x_1015.pdf Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Adopt value from gardner_3bu_2_1015.pdf page 6. See gardneer_3bu_1_1015.pdf deletes ICUT. C/ 104 SC 104.3.4.3 P 28 L 31 # 89 C/ 104 SC 104.3.6.1 P 30 L 52 # 141 Gardner, Andrew Linear Technology Cor Dove. Daniel Dove Networking Solut Comment Type T Comment Status A Comment Type TR Comment Status A Cbad in Table 104-5 is TBD. It seems that a time value should be identified here. It does not constrain how fast or slow SuggestedRemedy this value shall decay. Is Cbad required to fail detection. The tdet timer should suffice. Consider removing Cbad. SuggestedRemedy Response Response Status C Insert a time value or reference the appropriate time value ACCEPT. Response Response Status C ACCEPT IN PRINCIPLE. Remove CBAD row from table 104-5. A PSE operating in the SLEEP_SETTLE state shall discharge the PSE PI to the range of

Vsleep within a time less than Toff max.

C/ 104 SC 104.3.6.1 P 31 L 6 # 142 C/ 104 SC 104.3.6.5 P 31 L 21 # 93 Dove. Daniel Dove Networking Solut Gardner, Andrew Linear Technology Cor Comment Status R Comment Type TR Comment Type TR Comment Status A It seems that a time value should be identified here. It does not constrain how fast or slow The tinrush timer and tpon timer seem to be redundant. this value shall decay. SuggestedRemedy SuggestedRemedy See gardner_3bu_x_1015 presentation. Insert a time value or reference the appropriate time value Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. REJECT. Adopt text from pages 5 & 14 of gardner_3bu_1_1015.pdf. See #141. C/ 104 SC 104.3.6.6 P 31 L 23 # 114 C/ 104 SC 104.3.6.1 P 31 L 25 # 143 Gardner, Andrew Linear Technology Dove. Daniel Dove Networking Solut Comment Type TR Comment Status A Comment Type TR Comment Status A Tinrush and Tpon appear to be overlapping timers. In the PSE state machine, Tpon is used "may remove" does not indicate any requirement. Is there a requirement? If so, a shall to limit the power-up timer, but subclause 104.3.6.6 refers to Tinrush instead. statement should apply. SuggestedRemedy SuggestedRemedy Rename Tpon Tinrush in the state machine, and delete the Tpon timer definition. If a "shall remove" requirement exists, please insert. Response Response Status C Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Adopt state diagramn from page 7 of gardner_3bu_1_1015.pdf. OBE by 116. C/ 104 SC 104.3.6.8 P 31 L 47 # 75 C/ 104 SC 104.3.6.4 P 29 L 52 # 77 Gardner, Andrew Linear Technology Cor Linear Technology Cor Gardner, Andrew Comment Type ER Comment Status A Comment Status A Comment Type TR See comment regarding relevence of 104A.1 Subclause 104.3.6.4 is referenced by Ilim in Table 104-3 but there is not baseline text SuggestedRemedy regarding Ilim. If 104A.1 is removed, delete this subclause. SuggestedRemedy Response Response Status C See gardner 3bu x 1015 presentation. ACCEPT. Response Response Status C ACCEPT IN PRINCIPLE. See presentation. Delete the annex. Adopt text from page 12 & 14 of gardner_3bu_1b_1015.pdf. See comment #67.

P **32** C/ 104 SC 104.4.1 L 23 # 83 C/ 104 SC 104.4.3.1 P 26 L 27 # 104 Gardner, Andrew Linear Technology Cor Matola, Larry Delphi Comment Type Comment Status A Ε Comment Type TR Comment Status R This subclause is redundant with 104.1.4 clause and page may be wrong due to comment against draft 1.2 will be out of office during 1.3 voting period SuggestedRemedy requirement for PoDL poer to be isolated from chassis (isolated to data lines) may be Delete 104.4.1 problematic if adding Ethernet to existing design. Typical Auto design standards allow DC groud to chassis (most times encourage local grounding for EMC reasons) Response Response Status C SuggestedRemedy ACCEPT IN PRINCIPLE. suggest putting DC isolation as prt of optional or reference design at PD or PSE (whichever is more cost effective) so potential circuitry does not have to be redesigned or revalidated. OBE by 70. If isolation was added PSE or PD ethernet circuit existing module circuitry would not need P 34 C/ 104 SC 104.4.3 L 36 # 87 to be revised. Gardner, Andrew Linear Technology Cor Response Response Status C Comment Status A REJECT. Comment Type TR The function 'do_sccp' is not defined. Discussed with commentor via email. Satisfied with rejection. SuggestedRemedy See comment #11. Add defnition for 'do_sccp.' Response Response Status C C/ 104 SC 104.4.3.3 P 33 L 6 # 85 ACCEPT IN PRINCIPLE. Gardner, Andrew Linear Technology Cor Comment Type T Comment Status A Adopt text from presentation stewart 3bu 1 1015.pdf regarding SCCP. The variable 'disconnect' could be confused with the 'DISCONNECT' state SuggestedRemedy Rename the variable as disconnect PD? Response Response Status C ACCEPT. SC 104.4.4 C/ 104 P 35 L 20 # 64 Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status A Table 104-4 Isignature limit, should be 'Vconnector<Vsig_disable max' SuggestedRemedy

See comment.

ACCEPT.

Response

Response Status C

C/ 104 SC 104.4.4 P 35 L 36 # 88 C/ 104 SC 104.4.6.2 P 37 L 25 # 66 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status A Comment Type TR Comment Status A Chad in Table 104-5 is TBD. Max PD input current during inrush should be specified here. SuggestedRemedy SuggestedRemedy Is Cbad required to fail detection. The tdet_timer should suffice. Consider removing Cbad. See gardner_3bu_x_1015 presentation. Response Response Response Status C Response Status C ACCEPT IN PRINCIPLE. OBE by #89. ACCEPT IN PRINCIPLE. C/ 104 SC 104.4.6 P 36 L 50 # 101 See gardner_3bu_2_1015.pdf page 6. Gardner, Andrew Linear Technology Cor C/ 104 SC 104.4.6.2 P 37 L 31 # 65 Comment Type TR Comment Status A Gardner, Andrew Linear Technology Cor Cin, detect is TBD. Comment Type TR Comment Status D SuggestedRemedy 3.1V<VPI(PD)<3.5 should be in Table 104-6 See gardner_3bu_x_1015 presentation. SuggestedRemedy Response Response Status C See comment. ACCEPT. Proposed Response Response Status Z REJECT. Accept text in gardner_3bu_2_1015.pdf on page 6. C/ 104 SC 104.4.6 P 36 L 53 # 102 This comment was WITHDRAWN by the commenter. Linear Technology Cor Gardner, Andrew C/ 104 SC 104.4.6.5 P 38 L 14 # 69 Comment Type TR Comment Status A Linear Technology Cor Gardner, Andrew tpwr_dly is TBD Comment Type ER Comment Status A SuggestedRemedy See comment regarding relevence of 104A.1 See gardner_3bu_x_1015 presentation. SuggestedRemedy Response Response Status C See comment. ACCEPT. Response Response Status C Accept text in gardner_3bu_2_1015.pdf on page 6. ACCEPT IN PRINCIPLE. OBE #67.

Cl 104 SC 104.5 P 38 L 35 # [12]
Law. David HP Ltd

Comment Type TR Comment Status R

To ensure application of PoDL power is a broad set of applications suggest that isolation requirements be placed on both PSEs as well as PDs.

SuggestedRemedy

Change the text 'A PD shall ...' to read 'PDs and PSEs shall ...' and the text '... to a PD through ...' to read '... to a PD or PSE through ...'.

Response Status C

REJECT.

See http://www.ieee802.org/3/bu/public/jan15/gardner_3bu_3_0115.pdf for discussion.

C/ 104 SC 104.5 P 38 L 35 # 11 HP Ltd

Comment Type T Comment Status A

Subclause 10.2.2 'Shall, should, may, and can' of the '2014 IEEE-SA Standards Style Manual' reads 'Note that the use of the word must is deprecated and shall not be used when stating mandatory requirements; must is used only to describe unavoidable situations.'. As the text is currently written it doesn't seem to describe an unavoidable situation, therefore suggest it be re-written to do so.

SuggestedRemedy

Suggest the text '... the MDI leads must provide isolation between all accessible external conductors, including frame ground (if any), and the non-MDI connector.' be changed to read '... the MDI leads must provide isolation between all accessible external conductors, including frame ground (if any), and the non-MDI connector, so as not to negate the DC isolation provided by the PD.

Response Response Status C ACCEPT.

Cl 104 SC 104.5.1 P 38 L 35 # 94

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

Need to resolve use of must in this subclause.

SuggestedRemedy

Define a level of DC isolation (Volts and ohms?) and use 'shall.'

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #11.

Cl 104 SC 104.5.3 P 38 L 38 # 95

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status A

Need to add DC isolated PHY transmitter test fixtures to Clause 104.

SuggestedRemedy
See comment.

Response Response Status C

ACCEPT.

Add subclause 104.5.3.2 stating that "Test fixtures for PHY transmitters may need to incorporate DC blocking components in order compatible with Clause 104."

C/ 104 SC 104.6 P 39 L 33 # 10 Law. David HP I td

Comment Type Т Comment Status A

The text seems to currently use PSE and master, and PD and slave, interchangeably. Suggest that the text be written in the terms of a PSE and a PD, and what their requirements are during the SCCP exchange.

See also comment that SCCP is being used of a point to point link.

SuggestedRemedy

- [1] Suggest the first paragraph of subclause 104.6 be changed to read 'The PSE acts as a master during the SCCP exchange, controlling the PD that acts as the slave device.'.
- [2] Suggest that the third sentence of the second paragraph of subclause 104.6 be changed to read 'The PD can derive power from the PSE's pull-up current during the SCCP exchange.'.
- [3] Suggest that the title of subclause 104.6.1 'SCCP master' be changed to read 'PSE SCCP requirements'.
- [4] Suggest that the text 'The master device shall source a pull-up current in ...' in subclause 104.6.1 be changed to read 'During the SCCP exchange the PSE shall source a pull-up current in ...'.
- [5] Suggest that the sentence '104-7 illustrates the master device block diagram.' in subclause 104.6.1 be changed to read '104-7 illustrates the PSE SCCP block diagram.'.
- [6] Suggest the title of Figure 104-7 'SCCP master block diagram' be changed to read 'PSE SCCP block diagram'.
- [7] Suggest that the title of subclause 104.6.2 'SCCP slave' be changed to read 'PD SCCP requirements'.
- [8] Suggest the text ' Slave devices that derive their power from the master's pull-up current should utilize a charge reservoir ...' in the first sentence of subclause 104.6.2 be changed to read 'PDs that derive their power from the PSE's pull-up current during the SCCP exchange should utilize a charge reservoir ...'.
- [9] Suggest the title of Figure 104-8 'SCCP slave block diagram' be changed to read 'PD SCCP block diagram'.
- [10] In subclause 104.6.3 'SCCP signaling' and 104.6.4 'Serial communication classification protocols' replace all instances of 'master' with 'PSE' and 'slave' with 'PD'.

Response Response Status C

ACCEPT.

Accept remedy #1.

C/ 104 SC 104.6 P 39 L 33 # 13 Law. David HP I td

Comment Type Comment Status A

Since the SCCP is used on a point to point link, I don't see the need to support multiple salve devices and, as far as I can see, the PSE can only accept a single information byte with a PD class since it isn't capable of process multiple PD class responses from a PD.

Further, the inclusion an address in the SCCP message seems unnecessary on a point to point link, and would require a registration process to be defined to allocate these 48 bit addresses, assuming that each address is to be unique. I would note that at the moment the response to item 6.1.b. on the approved IEEE P802.3bu PAR, 'Is the Sponsor aware of possible registration activity related to this project?', is 'No'.

Finally, the exchange of this data to communicate a 8-bit information byte from the PD seems to take in the region of 7.5ms of the 25ms I understand that PoDL has been allocated from the overall maximum 100ms start up time.

SuggestedRemedy

Suggest that SCCP be changed to be based on a master (PSE) communicating with a single slave device (PD) which will remove the need for an address in the exchange and speed up the start up process.

Response Response Status C

ACCEPT IN PRINCIPLE.

By accepting text from stewart 3bu 1 1015.pdf multidrop is gone.

C/ 104

SC 104.6

Cl 104 SC 104.6 P 39 L 36 # 2
Carlson, Steven HSD

Comment Type TR Comment Status D

IEEE 802.3 defines point to point links with a single station at each end of the link. This subclause indicates that a "multi-drop" mode is present for multiple PDs within a PI. This is not compatible with the IEEE 802.3 architecture.

As this is a Task Force review, this will be a general comment on 104.6 SCCP.

- 1. What is the rational for multi-drop mode?
- 2. Diagrams and explaination read like an IC data sheet, e.g. implied implementation, not an interoperability specification
- 3. Use of 64-bit addressing seems wildly unecessary and inefficient
- 4. Requirement for 64-bit address requires RAC action
- 5. PAR Section 6.1b should be a "Yes". It is currently a "No"
- 6. PD is burdened with a complex Layer 1 signature and classification mechanism
- 7. SCCP seems to be envisioned as a full communications scheme if the PSE is not powering the link. This is beyond the scope of the PAR.

SuggestedRemedy

Eliminate addressing scheme, which also eliminates the need for RAC action Eliminate multi-drop mode

Redo figures and text to meet IEEE style

If SCCP is desired as a full communcations scheme when the PSE is not powering the link segment, change PAR to reflect this.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE

OBE by 13.

Cl 104 SC 104.6.1 P 42 L 44 # 146

Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status A

and ROM... is this essential? It could be PROM, RAM, etc. I think that all falls under the term LOGIC, so would delete this.

SuggestedRemedy

Delete words "and ROM"

Response Status C

ACCEPT IN PRINCIPLE.

Remove 'ROM' from 104.6.

Duplicate comment with #145.

Cl 104 SC 104.6.1 P 42 L 44 # [145

Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status R

and ROM... is this essential? It could be PROM, RAM, etc. I think that all falls under the term LOGIC, so would delete this.

SuggestedRemedy

Delete words "and ROM"

Response Status C

REJECT.

Duplicate with 146.

Cl 104 SC 104.6.3.4 P 43 L 1 # 98

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status A

The timing parameters as defined for SCCP are not consistent with the detection current and PSE output and PD input capacitances.

SuggestedRemedy

re-work timing to be consistent with PoDL system paramters or remove SCCP from the standard.

Response Status C

ACCEPT IN PRINCIPLE.

Adopt timing parameters and text in stewart_3bu_1_1015.pdf.

C/ 104 SC 104.6.4.4 P 47 L 13 # 99 Gardner. Andrew Linear Technology Cor Comment Type TR Comment Status A SCCP function commands are TBD. SuggestedRemedy Add a function commands that allow the PSE to readback PD status and perform mutual identification. Response Response Status C ACCEPT IN PRINCIPLE. Adopt text from stewart_1_3bu_1015.pdf. C/ 104 SC 104.7.4 P 51 L 12 # 8 Chabot, Craig UNH-IOI Comment Status A Comment Type ER The many changes from D1.2 to D1.3 have consequently necessitated changes to the PICS. I have drafted a new, corrected version of the PICS tables. SuggestedRemedy See chabot 3bu 1 1015 Response Status C Response ACCEPT.

Cl 104.3 SC table 104-3 P23 L16 # [103 | Matola, Larry | Delphi

iviatola, Larry Delprii

Adopt chabot_3bu_2_1015.pdf

TR

clause may be wrong as I am commenting early (draft 1.2) due to vacation unable to wait for draft 1.3

Comment Status A

sleep voltage left on from PSE to bias PD typically in Autoomotive applications hot plug is not doen with live voltage. Open circuit voltage can also lead to service accidents (stray screwdriver) and potential galvanic corrosion (unprotected open connector exposed to moisture)

SuggestedRemedy

Comment Type

suggest adding timer to turn off sleep bias if relativly low resistance is detected as falult mode (short circuit up to some small resistance TBD) to help prevent condition listed

Response Status C

ACCEPT IN PRINCIPLE.

Adopt text and state diagram from gardner_1b_3bu_1015.pdf.

C/ 104A SC 104A.1 P57 L9 # 67

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

The informative annex as written is not applicable to the PoDL phantom power architecture.

SuggestedRemedy

Either re-write or delete this annex.

Proposed Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

Discuss in room.

OBE by 75.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 104A SC 104A.1 Page 12 of 12 10/16/2015 6:16:43 AM