C/ 104 SC 104.3.1 P 16 L 22 # 1 C/ 00 SC_0 Р 1 # 4 Dell Dell D'Ambrosia, John D'Ambrosia, John Comment Type ER Comment Status D Comment Type TR Comment Status X Per 104.3.1 - "there are two types of PSEs:...." However, Section 1.4 already defines two pics are needed types of PSEs, see 1.4.403 and 1.4.405. Further clarification is needed to prevent reader SuggestedRemedy confusion. add pics SuggestedRemedy Proposed Response Response Status W Add simple intro "For PoDL system types, there are...." NonEz. Proposed Response Response Status W C/ 104 SC 104.4.6 P 29 L 6 PROPOSED ACCEPT, EZ. Gardner, Andrew Linear Technology Cor SC Ρ C/ 00 L Comment Type Comment Status X D'Ambrosia, John Dell The additional information column for Table 104-6 on page 29 is empty. Comment Type ER Comment Status X SuggestedRemedy Modify definitions in 1.4 for PSE and PD types Populate the additional information column with references to the relevant subclauses for each item. SuggestedRemedy Proposed Response Response Status W Add definitions for 1.4 NonEz. Proposed Response Response Status W NonEz. C/ 104 SC 104 4 3 P 28 L 1 Gardner, Andrew Linear Technology Cor C/ 104 SC 104.4.1 P 26 # 3 Comment Type T Comment Status X Dell D'Ambrosia, John The PD state diagram needs to be revised to be consistent with the new requirement that a Comment Type ER Comment Status X sleeping PD remove its MPS prior to entering sleep. PDs are already defined in 802.3. See 1.4.402 and 1.4.404 SuggestedRemedy SuggestedRemedy Revise the PD state diagram as proposed in gardner 3bu 1 0915.pdf. add definitions to 1.4 for types of PDs for PoDL Proposed Response Response Status W Proposed Response Response Status W NonEz. NonEZ.

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 104 SC 104.3.4 P 22 # 7 C/ 104 P 26 L 27 # 10 L 1 SC 104.4.3.1 Linear Technology Cor Gardner, Andrew Gardner, Andrew Linear Technology Cor Comment Type Т Comment Status X Comment Type T Comment Status X There are several TBDs in Table 104-2. The overview of the PD's behavior needs to be revised in order to be consistent with requirements for a sleeping PD. SuggestedRemedy SugaestedRemedy Replace the TBDs with limits as proposed in gardner 3bu 3 0915.pdf. Replace with baseline text as proposed in gardner 3bu 1.pdf. Proposed Response Response Status W Proposed Response Response Status W NonEz. NonEz. # 8 C/ 104 SC 104.3.4 P 21 / 1 C/ 104 SC 104.4.4 P 29 L 1 # 11 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type T Comment Status X Comment Type Comment Status X The detection state diagram shown in Figure 104-5 incorporates a new timer called The baseline text in this subclause needs to be revised to reflect the requirements for vsig hold timer, but the value for this timer is not specified in Table 104-2. wakeup from the PD sleep. SuggestedRemedy SuggestedRemedy Add an entry to Table 104-2 for the vsig hold timer as proposed in Revise the baseline text in subclause 104.4.4 as proposed in gardner 3bu 1 0915.pdf. gardner 3bu 3 0915.pdf. Proposed Response Proposed Response Response Status W Response Status W NonEZ. NonEz. C/ 104 SC 104.3.4 P 21 L 46 # 9 C/ 104 SC 104.4.4 P 29 L 17 # 12 Gardner, Andrew Gardner, Andrew Linear Technology Cor Linear Technology Cor Comment Type T Comment Status X Comment Type T Comment Status X The slew rate specification for Idetect in Table 104-2 is TBD. The PD detection signature characteristics listed in Tables 104-4 and 104-5 conflict with the voltage required for a sleeping PHY (3.3V). SuggestedRemedy SuggestedRemedy Replace the TBD for Idetect max slew rate with the value proposed in Revise the limits in Table 104-4 and 104-5 as proposed in gardner_3bu_1_0915.pdf. gardner_3bu_2_0915.pdf. Proposed Response Proposed Response Response Status W Response Status W NonEz. NonEz.

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

C/ 104 SC 104.4.4 P 29 # 13 C/ 104 P 31 # 17 L 37 SC 104 4 6 16 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type Т Comment Status X Comment Type T Comment Status X The min limit for Cbad in Table 104-5 is TBD. The limits for items 8 and 9 in Table 104-6 are TBD. SuggestedRemedy SugaestedRemedy Replace the Cbad min TBD with the limit proposed in gardner 3bu 3 0915.pdf. Replace the TBDs for items 8 and 9 in Table 104-6 with limits proposed in gardner 3bu 1 0915.pdf. Proposed Response Response Status W Proposed Response Response Status W NonEz. NonEz. # 14 C/ 104 SC 104.4.6 P 30 16 Cl 104 SC 104.4.6.5 P 32 L 11 # 18 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type T Comment Status X Comment Type T Comment Status X Items 1-3 in Table 104-6 are TBDs. There is no corresponding entry in Table 104-6 for tsleep. SuggestedRemedy SugaestedRemedy Replace the TBDs for items 1-3 in Table 104-6 with limits proposed in Replace tsleep with a hard limit as proposed in gardner 3bu 1 0915.pdf. gardner 3bu 2 0915.pdf. Proposed Response Proposed Response Response Status W Response Status W NonEz. NonEz. C/ 104 SC 104 4 6 1 P 31 1 22 # 15 C/ 104 SC 104 4 7 P 32 / 21 # 19 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type Ε Comment Status X Comment Type T Comment Status X The text in subclause 104.4.7 needs to be revised to state that valid MPS shall be There appear to be extra carriage returns after subclause 104.4.6.1. presented when the PD wishes to receive full-power at the MDI/PI. In addition, the MPS SuggestedRemedy requirements need to be revised to be consistent with the new MPS requirements that are Remove the extra carriage returns. being proposed for the PSE. Proposed Response Response Status W SuggestedRemedy NonEz. Revise the text in subclause 104.4.7 as proposed in gardner 3bu 1 0915.pdf. Proposed Response Response Status W C/ 104 SC 104.4.6 P 30 L 48 # 16 NonEz. Linear Technology Cor Gardner, Andrew Comment Status X Comment Type The limits for items 6 and 7 in Table 104-6 are TBD.

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

Replace the TBDs for items 6 and 7 with limits proposed in gardner 3bu 3 0915.pdf.

Response Status W

SuggestedRemedy

Proposed Response

NonEz.

Comment ID 19

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C/ 104

NonEZ.

SC 104 6 3 4

C/ 104 SC 104.5.3 P 32 1 47 # 20 Linear Technology Cor Gardner, Andrew Comment Type Т Comment Status X The text "All other Ethernet physical layers should refer to their respective clauses for PHY electrical specifications" is potententially problematic. For example, the transmitter test fixtures called out in both 802.3bp and 802.3bw use DC coupled terminations or baluns. SuggestedRemedy Ask 802.3bw and 802.3bp to add low loss AC coupling capacitors into the transmitter test fixtures in order to make them compatible with PoDL PSE and PD PHY transmitters. Proposed Response Response Status W NonEz. C/ 104 SC 104.5.3.1 P 33 L 9 # 21 Gardner, Andrew Linear Technology Cor Comment Type Е Comment Status X Footnote 1 is informative. SuggestedRemedy Either move footnote 1 to an informative annex or delete it. Proposed Response Response Status W NonEz. C/ 104 SC 104.6.3.4 P 37 L 1 # 22 Gardner, Andrew Linear Technology Cor Comment Type Т Comment Status X Item 3 has a TBD for the min limit. SuggestedRemedy Replace the item 3 TBD with the value proposed in gardner 3bu 4 0915.pdf. Proposed Response Response Status W

NonEz.

Gardner, Andrew Linear Technology Cor Comment Type T Comment Status X The electrical limits in Table 104-7 are not compatible with the shunt capacitance presented by a 100BASE-T1 PHY. SugaestedRemedy Revise the electrical limits as proposed in gardner 3bu 4 0915.pdf. Proposed Response Response Status W NonEz. C/ 104 SC 104.6.4.4 P 41 L 12 Gardner. Andrew Linear Technology Cor Comment Type T Comment Status X The baseline text for subclause 104.6.4.4 is TBD. SugaestedRemedy Incorporate the baseline text as proposed in gardner 3bu 4 0915.pdf. Proposed Response Response Status W NonEz. C/ 104 SC 104.2 P 15 1 23 # 25 Gardner, Andrew Linear Technology Cor Comment Type T Comment Status X The maximum allowed DC loop resistance of 6.5 ohms is limiting for the 1W PD unregulated 12V class. As is, the PSE source resistance must be less than 0.86 ohms and VPDmin is 3.75V which is pushing VOFF down to 3.6V. SuggestedRemedy Reduce the max loop resistance. For example, reducing the max loop resistance to 6 ohms would allow the VPD min to increase to 4V and the max PSE source resistance to increase to 1 ohm. Proposed Response Response Status W

P 37

/ 1

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/ 104 SC 104.3.4.1 P 21 1 42 # 26 C/ 104 P 25 # 30 SC 104.3.6.6 L 16 Linear Technology Cor Gardner, Andrew Gardner, Andrew Linear Technology Cor Comment Type Т Comment Status X Comment Type T Comment Status X Item 2 in Table 104-2, short circuit current, only needs a max limit. The minimum is implied The value for the test resistor specified in 104.3.6.6 is TBD. by the max value for item 3, valid test probe current. SuggestedRemedy SuggestedRemedy Replace the TBD with the value proposed in gardner 3bu 0915.pdf. Remove 20mA from the minimum value column for item 2 in Table 104-2. Proposed Response Response Status W Proposed Response Response Status W NonEz. NonEz. P 25 C/ 104 SC 104.3.7 L 38 C/ 104 SC 104.3.6.2 P 24 L 39 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type T Comment Status X Comment Type T Comment Status X Removing power entirely from the PI in the absence of MPS is incompatible with the The limits for ripple noise in Table 104-3 are TBD. regirements for a sleeping PD. SuggestedRemedy SugaestedRemedy Replace the TBDs with limits as proposed in gardner 3bu 2 0915.pdf. Reword subclause 104.3.7 as described in gardner 3bu 1 0915.pdf. Proposed Response Proposed Response Response Status W Response Status W NonEz. NonEz. C/ 104 SC 104 3 6 P 23 / 41 # 28 C/ 104 SC 104.3.7.1 P 25 / 43 # 32 Linear Technology Cor Gardner, Andrew Linear Technology Cor Gardner, Andrew Comment Type T Comment Status X Comment Type T Comment Status X The requirements for MPS need to be re-evaluated given the requirement to maintain a Items 2 & 5 in Table 104-3 are TBDs. reduced power level at the PI when a PD goes to sleep. SuggestedRemedy SuggestedRemedy Replace the TBDs with limits as proposed in gardner 3bu 2 0915.pdf. Reword subclause 104.3.7.1 as described in gardner 3bu 1 0915.pdf. Proposed Response Response Status W Proposed Response Response Status W NonEz. NonEz. C/ 104 SC 104.3.6 P 23-24 # 29 Linear Technology Cor Gardner, Andrew Comment Type Т Comment Status X Items 8, 9, and 11 are TBD in Table 104-3.

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

SuggestedRemedy

Proposed Response

NonEz.

Replace TBDs with limits as proposed in gardner 3bu 3 0915.pdf.

C/ 104 SC 104.3.3 P 16 # 33 C/ 104 P 17 1 24 # 36 / 31 SC 104.3.3.4 Gardner, Andrew Linear Technology Cor Dwellev. David Linear Technology Comment Type Т Comment Status X Comment Type Ε Comment Status D The PSE state diagram needs to be revised in order to be consistent with the requirement mr prefix is inherited from PoE and is meaningless here that a PD that no longer exhibits valid MPS should receive sleep bias. SugaestedRemedy SuggestedRemedy Remove mr prefixes throughout Revise the PSE state diagram and MPS state diagram as described in Proposed Response Response Status W gardner 3bu 1 0915.pdf. PROPOSED ACCEPT, EZ. Proposed Response Response Status W NonEZ. C/ 104 P 17 SC 104.3.3.4 L 25 Dwelley, David Linear Technology C/ 104 SC 104.3.4 P 22 / 1 # 34 Comment Type Comment Status D Gardner, Andrew Linear Technology Cor MPS stands for "maintain power signature" - with the new sleep mode, this isn't directly Comment Status X Comment Type T relevent - "maintain full voltage signature" is perhaps more descriptie The maximum output capacitance of 1nF allowed during detection in Table 104-2 may be SugaestedRemedy limiting. Change MPS to MFVS throughout SuggestedRemedy Proposed Response Response Status W Change the value as proposed in gardner_3bu_3_0915.pdf. NonEZ. Proposed Response Response Status W NonEz. P 18 C/ 104 SC 104 3 3 4 L 18 # 38 Dwelley, David Linear Technology SC 104.2 # 35 C/ 104 P 15 L 29 Comment Type Ε Comment Status D Dwelley, David Linear Technology "If true then valid. If false then invalid" is unnecessarily terse. Comment Type Т Comment Status X SugaestedRemedy Table 104-1: It's not clear to me that we need 48V unreg classes, 48V vehicles will typically not use 4 12V lead-acid cells in series, and "cold crank" behavior will be guite different Change to "True indicates that valid class information was received." from 12V and 24V classes. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT, EZ. Consider removing classes 8 and 9. C/ 104 SC 104.3.3.5 P 18 Proposed Response L 38 # 39 Response Status W Dwelley, David Linear Technology NonEZ. Comment Type Comment Status D tclass_watchdog_timer is unlike other timer names - "watchdog" is superfluous SuggestedRemedy Change to "tclass timer" throughout.

Proposed Response

PROPOSED ACCEPT, EZ.

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 39

Response Status W

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C/ 104 SC 104.3.3.6 P 20 L 12 # 40 C/ 104 P 39 L 6 # 43 SC 104.6.4.3 Dwellev. David Dwellev. David Linear Technology Linear Technology Comment Type Т Comment Status D Comment Type Ε Comment Status X Figure 104-4 (PSE state machine); mr pse enable term in exit of IDLE state is redundant Table 104-8: type A and type B terms are used but never defined. since !mr pse enable globally leads to the DISABLED state SugaestedRemedy SuggestedRemedy Remove "type A" and "type B" and the parens around 100BASE-T1 and 1000BASE-T1. Change exit condition to pse ready only. Proposed Response Response Status W Proposed Response Response Status W NonEz. PROPOSED ACCEPT, EZ. SC 104.1 P 13 C/ 104 L 7 C/ 104 SC 104.3.3.6 P 20 L 38 XU, Dayin Rockwell Automation Dwelley, David Linear Technology Comment Type ER Comment Status D Comment Type Т Comment Status D the first letter of "power" and "interface" words should be capital letter Exit from POWER UP state to POWER ON state: !tpon timer done term is redundant SugaestedRemedy since tpon timer done exits to RESTART DELAY without other conditions Change "power interface" to "Power Interface" SuggestedRemedy Proposed Response Response Status W Remove !tpon timer done term PROPOSED ACCEPT. EZ. Proposed Response Response Status W PROPOSED ACCEPT, EZ. C/ 104 SC 104.1.2.1 P 13 L 51 # 45 XU, Davin Rockwell Automation C/ 104 SC 104.3.6 P 22 L 53 # 42 Comment Type Comment Status D Ε Dwelley, David Linear Technology The subclause 104.1.2.1 has no relationship to 104.1.2, should remove it or move the Comment Type Ε Comment Status X subclause 104.1.2.1 to somewhere else. "...electrical limits set out in Table..." SuggestedRemedy "set out" is unneeded Remove subclause 104.1.2.1, and combine the description into the subclause 104.1.4 SuggestedRemedy Proposed Response Response Status W Remove "set out" PROPOSED ACCEPT. EZ. Proposed Response Response Status W

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

NonEz.

C/ 104 SC 104.1.3 P 14 # 46 C/ 104 P 20 # 49 / 1 SC 104.3.3 L 15 XU. Davin Rockwell Automation XU. Davin Rockwell Automation Comment Type ER Comment Status D Comment Type Т Comment Status D The format of the title of the subclause in IEEE802.3 standard should be "only first letter of Figure 104-4 first work is in capital, all other words' first letter is in lower case". This comment applies The name of "START DETECTION" and "START CLASSIFICATION" is more like a to all similar places (e.g. line 21 page 15) in this draft. behavior not a state. SuggestedRemedy SuggestedRemedy Change "Relationship of 1-pair PoDL to the IEEE802.3 Architecture" to "Relationship of 1-Change "START DETECTION" to "PD DETECTION" or "DETECTION". pair PoDL to the IEEE802.3 architecture". Review all titles of subclause in this draft. and change "START CLASSIFICATION" to "PD CLASSIFICATION" or "CLASSIFICATION" ensure the correct format is used. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT E7 PROPOSED ACCEPT EZ C/ 104 P 14 C/ 104 SC 104.3.6 P 23 SC 104.1.3 L 3 # 47 L 1 # 50 XU. Davin **Rockwell Automation** XU. Davin Rockwell Automation Comment Type ER Comment Status D Comment Type Comment Status X ER The power entity in a device supporting 1-pair PoDL should not be optional. Table reference error SuggestedRemedy SuggestedRemedy Change "1-pair PoDL comprises an optional power entity ..." to "1-pair PoDL comprises a Change table reference from "Table 104-5" to "Table 104-3" power entity ...". Proposed Response Response Status W Proposed Response Response Status W NonEz. PROPOSED ACCEPT, EZ. C/ 104 SC 104.3.6 P 23 17 # 51 C/ 104 SC 104.2 P 15 L 29 # 48 Rockwell Automation XU. Davin Rockwell Automation XU, Dayin Comment Type ER Comment Status X Comment Type ER Comment Status D Table 104-3 Table 104-1 Adjust the item sequence in this table so that the reader can read it in a more logical way. The reader may not clearly understand the meaning of unreg and reg in Table 104-1. Also consider the item sequence in Table 104-6. The reader may read these two tables Description on the meaning is necessory. together in the end. So try to make these two tables organized to be read more easily in parallel. SuggestedRemedy SuggestedRemedy Adding description of "unreg" and "reg" in Table 104-1. 1. Move item 4 before Item 2 Proposed Response Response Status W 2. Move item 5 before Item 3

Proposed Response

NonEz.

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

PROPOSED ACCEPT, EZ.

Comment ID 51

Response Status W

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Proposed Response

NonEz.

C/ 104 SC 104.3.6 P 23 1 42 # 52 Rockwell Automation XU, Dayin Comment Type ER Comment Status X Subclause reference error. SuggestedRemedy Not sure there is a subclause that could be referenced for this item 5 Proposed Response Response Status W NonEz. SC 104.3.6 P 24 # 53 C/ 104 L 23 XU, Dayin **Rockwell Automation** Comment Type ER Comment Status X Subclause 104.3.6.5 reference error SuggestedRemedy Change subclause reference "104.3.6.5" to "104.3.6.4" for item 18 and 19 in Table 104-3 Proposed Response Response Status W NonEz. C/ 104 SC 104.6.3.1 P 35 L 31 # 54 XU, Dayin Rockwell Automation Comment Type ER Comment Status X Figure 104-10 reference error SuggestedRemedy Change "Figure 104-10" to "Figure 104-9" Proposed Response Response Status W NonEz. SC 104.6.3.2 # 55 C/ 104 P 36 L 7 XU, Dayin Rockwell Automation Comment Type ER Comment Status X Change "... pulling it PI port ..." to "... pulling its PI port ..." SuggestedRemedy Change "... pulling it PI port ..." to "... pulling its PI port ..."

Response Status W

Proposed Response

NonEz.

C/ 104 SC 104.6.3.2 P 36 L 8 # 56 Rockwell Automation XU, Dayin Comment Type ER Comment Status X Figure 104-11 reference error, line 34 has the same error. SuggestedRemedy Change "Figure 104-11" to "Figure 104-10" Proposed Response Response Status W NonEz. C/ 104 SC 104.6.4.3 P 38 L 39 XU, Dayin Rockwell Automation Comment Type ER Comment Status X Figure reference error, has same error in line 50 SuggestedRemedy Line 39: change Figure 104-12 to Figure 104-11 Line 50: change Figure 104-13 to Figure 104-12

C/ 104 SC 104.4.6 P 29 / 48 # 58 C/ 104 P 19 L 12 # 59 SC 336 Rockwell Automation UNH-IOI XU. Davin Donahue, Curtis Comment Type ER Comment Status X Comment Type E Comment Status X Consider align the structure of this subclause to the subclause 104.3.6. Should "PD information byte" be "PD information byte"? SugaestedRemedy The structure of 104.3.6 See comment. 104.3.6.1 Output voltage 104.3.6.2 Power feeding ripple and noise Proposed Response Response Status W 104.3.6.3 Overload current NonEz. 104.3.6.4 Output current 104.3.6.5 Turn on time 104.3.6.6 Turn off time C/ 104 SC 3.4 P 21 L 25 104.3.6.7 Continuous output power in POWER_ON state Donahue, Curtis UNH-IOI 104.3.6.8 PSE stability Comment Type E Comment Status X The structure of 104.4.6 "the link segment may not be called out to preserve clarity". I'm not sure I understand what 104.4.6.1 PD input voltage this is trying to tell the reader. Not mentioning the link segment preserves clarity? Is saying 104.4.6.2 Input average power this even necessary? 104.4.6.3 PD stability SuggestedRemedy 104.4.6.4 PD ripple and noise 104.4.6.5 Input current Remove last sentence of paragraph if its not necessary. Proposed Response Response Status W these two structure could be organized better for easy reading. NonEz. SuggestedRemedy Here are suggested changes: C/ 104 SC 3.4.1 P 22 L 2 # 61 Donahue, Curtis **UNH-IOL** Change the structure of 104.3.6 to 104.3.6.1 Output voltage Comment Type Comment Status X 104.3.6.2 Output current Table 104-2 on page 15 should have "(continued)" at the end since its split across 2 pages. 104.3.6.3 Power feeding ripple and noise Same for Table 104-3 on pg 24, and Table 104-6 on pg 31. 104.3.6.4 Overload current 104.3.6.5 Turn on time SuggestedRemedy 104.3.6.6 Turn off time See comment. I thought FrameMaker fixed this automatically, guess not.

Proposed Response

NonEz.

Proposed Response Status W

104.3.6.8 PSE stability

Change the structure of 104.4.6 to 104.4.6.1 PD input voltage 104.4.6.2 Input current 104.4.6.3 PD ripple and noise 104.4.6.4 Input average power 104.4.6.5 PD stability

104.3.6.7 Continuous output power in POWER ON state

NonEz.

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 104 SC 3.6 Donahue, Curtis	<i>P</i> 22 UNH-IOL	L 46	# 62	Cl 104 SC 4.5 Donahue, Curtis	<i>P</i> 29 UNH-IOL	L 44	# [66
Comment Type E Remove "section" be	Comment Status X efore "104.6".			Comment Type E Remove "section" bef	Comment Status X		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response NonEz.	Response Status W			Proposed Response NonEz.	Response Status W		
C/ 104 SC 4.3.1 Donahue, Curtis	<i>P</i> 26 UNH-IOL	L 29	# [63	CI 104 SC 4.6.3 Donahue, Curtis	<i>P</i> 31 UNH-IOL	L 36 # [# 67
Comment Type E Remove "section" be	Comment Status X sfore "104.4.4".			Comment Type E There should be a mu	Comment Status X ultiplication operator before the	"W" in equation	104-1.
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response NonEz.	Response Status W			Proposed Response NonEz.	Response Status W		
CI 104 SC 4.4 Donahue, Curtis	<i>P</i> 29 UNH-IOL	L 8	# [64	Cl 104 SC 4.6.3 Donahue, Curtis	<i>P</i> 31 UNH-IOL	L 42	# [68
Comment Type E Comment Status X Change "consistsof" to "consists of".			Comment Type E Comment Status X Looks like the variable definitions for equaiton 104-1 is an inserted image, or the font is just wonky. Additionally "W" is not defined.				
SuggestedRemedy See comment.		w		SuggestedRemedy			
Proposed Response NonEz.	Response Status W			Fix font of variable. And Proposed Response NonEz.	dd definition for "W". Response Status W		
Cl 104 SC 4.6 Donahue, Curtis	<i>P</i> 29 UNH-IOL	L 50	# [65				
Comment Type E	Comment Status X						

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

Change "shalloperate" to "shall operate".

Response Status W

SuggestedRemedy
See comment.
Proposed Response

NonEz.

C/ 104 SC 5.3.1 P 32 L 54 # 69 C/ 104 SC 6.2 P 34 L 30 # 73 Donahue, Curtis UNH-IOI UNH-IOI Donahue, Curtis Comment Type Ε Comment Status X Comment Type E Comment Status D Theres a "1" representing a footnote marker but the footnote text is on the following page. "Figure 104-9" should be "Figure 104-8". SuggestedRemedy SugaestedRemedy See comment. Use correct style in FrameMaker to keep footnote at the bottom of the page that the marker resides. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. EZ. NonEz. SC 6.3.1 C/ 104 P 35 L 10 C/ 104 SC 5.3.1 P 33 L 12 # 70 Donahue. Curtis **UNH-IOL** UNH-IOI Donahue, Curtis Comment Type E Comment Status D Comment Type Ε Comment Status X "Figure 104-10" should be "figure 104-9". This paragraph has duplicate text and unnecessary carrage returns in the middle of it. SuggestedRemedy SuggestedRemedy See comment. Remove "and under all operating conditions" on line 15, and fix the returns. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT, EZ. NonEz. C/ 104 SC 6.3.2 P 35 # 75 L 39 C/ 104 SC 5.3.1 P 33 / 1 # 71 Donahue, Curtis **UNH-IOL** Donahue, Curtis **UNH-IOL** Comment Type E Comment Status D Comment Type Ε Comment Status D "Figure 104-11" should be "Figure 104-10". Font of Equation 104-2 doesnt seem right. SuggestedRemedy SuggestedRemedy See comment. Use appropriate font in equation 104-2. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT, EZ. PROPOSED ACCEPT, EZ. C/ 104 SC 6.3.3 P **36** L 12 # 76 C/ 104 SC 5.3.1 P 33 L 13 # 72 Donahue, Curtis **UNH-IOL** Donahue, Curtis **UNH-IOL** Comment Type E Comment Status D Comment Status D Comment Type Ε "Figure 104-11" should be "Figure 104-10". "Equation 104-1" should be "Equation 104-2". SuggestedRemedy SuggestedRemedy See comment. See comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT, EZ. PROPOSED ACCEPT, EZ.

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

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C/ 104 SC 6.3.4 P 37 # 77 C/ 104A SC 2 P 42 L 41 # 80 L 16 Donahue, Curtis UNH-IOI Donahue, Curtis UNH-IOI Comment Type Ε Comment Status D Comment Type E Comment Status D Item 8 is missing from Table 104-7 Break first paragraph into 2 sentences. SuggestedRemedy SuggestedRemedy Renumber Items 9-14 as Items 8-13. Change to "RLoop is defined as the sum of the PSE source resistance, RPSE, and link segment round trip resistance. The maximum resistance of the link segment wire pair (per Proposed Response Response Status W unit length) is given by:". PROPOSED ACCEPT, EZ. Proposed Response Response Status W PROPOSED ACCEPT, EZ. SC 6.4.3 P 38 C/ 104 L 12 # 78 Donahue, Curtis UNH-IOI P **1** C/ 104 SC 99 L 22 # 81 Comment Type E Comment Status D Donahue, Curtis **UNH-IOL** "Figure 104-13" should be "Figure 104-12". Comment Type E Comment Status D SuggestedRemedy The Draft version in the text is D1.1. See comment. SuggestedRemedy Proposed Response Response Status W Update to the appropriate draft revision. PROPOSED ACCEPT, EZ. Proposed Response Response Status W PROPOSED ACCEPT. EZ. C/ 104A SC 1 P 42 L 35 # 79 Donahue, Curtis UNH-IOL C/ 104 SC₁ P 13 L7 Comment Type E Comment Status D Donahue, Curtis **UNH-IOL** "at short cable length"? Comment Type Comment Status D SuggestedRemedy "power interface (PI)" is all lowercase but "Power Source Equipment (PSE)" and "Powered Device (PD)" have capitalized first letters. This happens many times throughout the draft. Change to "a short cable length" or "short cable lengths". Is this intentional? Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT, EZ. Make "PI". "PSE", and "PD" consistent with capitalized letters. Proposed Response Response Status W PROPOSED ACCEPT, EZ.

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/ 104 SC 1.3 P 14 # 83 C/ 104 SC 1.4 P 15 L 1 # 86 L 11 UNH-IOI UNH-IOI Donahue, Curtis Donahue, Curtis Comment Type Е Comment Status D Comment Type E Comment Status D Figure number is "104-1-1", also "modell". Same as last comment except for "1000BASE-T1" SuggestedRemedy SuggestedRemedy Change to "Figure 104-1 1-Pair PoDL power sourcing equipment (PSE) relationship to the Change "with 1000BASE-T1 Ethernet" to "with a 1000BASE-T1 PHY". This also happens physical interface circuitry and the IEEE 802.3 Ethernet model". in 104.3.1 and 104.4.1. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT, EZ. PROPOSED ACCEPT, EZ. C/ 104 SC 1.3 P 14 L 31 C/ 104 SC 1.4 P 15 L 6 UNH-IOI UNH-IOI Donahue, Curtis Donahue, Curtis Comment Type Ε Comment Status D Comment Type E Comment Status D ure number is "104-2-1", also "modell". As well as "PHY", which is not in the title for Figure Figure number is "104-3-1". 104-1. SuggestedRemedy SuggestedRemedy Remove "-1". Change to "Figure 104-2 1-Pair PoDL powered device (PD) relationship to the physical Proposed Response Response Status W interface circuitry and the IEEE 802.3 Ethernet model". PROPOSED ACCEPT, EZ. Proposed Response Response Status W PROPOSED ACCEPT, EZ. C/ 104 SC 2 P 15 L 30 # 88 Donahue, Curtis **UNH-IOL** C/ 104 SC 1.4 P 14 L 54 # 85 Comment Type Ε Comment Status D Donahue, Curtis **UNH-IOL** I believe there should be a space between the 12/24/48 and "V". Comment Type Ε Comment Status D SuggestedRemedy I'm no expert but to me "compatible with 100BASE-T1 Ethernet" doesnt roll off the tongue very easily. Change to "12 V", "24 V", and "48 V". Also happens in Table 104-6. Fix and make consistent throughout draft. SuggestedRemedy Change "with 100BASE-T1 Ethernet" to "with a 100BASE-T1 PHY". This also happens in FrameMaker: Use ctrl+space.

Proposed Response

PROPOSED ACCEPT, EZ.

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

104.3.1 and 104.4.1.

PROPOSED ACCEPT, EZ.

Response Status W

Proposed Response

C/ 104 SC 3.3.2 P 16 L 46 # 89 C/ 104 SC 3.3.6 P 19 L 13 # 92 Donahue, Curtis UNH-IOI Donahue, Curtis UNH-IOI Comment Type Е Comment Status D Comment Type T Comment Status D "21.5" is an external reference and should be green. "Table 104-11" doesnt exist. SuggestedRemedy SuggestedRemedy See comment. This also happens in 104.4.3.2. Update with correct cross-reference. Proposed Response Response Status W FrameMaker: Right-click on text, Character > External. PROPOSED ACCEPT. EZ. Proposed Response Response Status W PROPOSED ACCEPT. EZ. C/ 104A SC 2 P 42 L 47 Donahue, Curtis **UNH-IOL** C/ 104 SC 3.3.3 P 18 # 90 L 7 Comment Type T Comment Status D Donahue, Curtis **UNH-IOL** If "L is 2X the length of the link segment" then why not just have "2L" in the equation? Comment Type Ε Comment Status D SuggestedRemedy "IPort" and "ISleep" need to be capital "I" and subscript "Port" or "Sleep". See comment. SuggestedRemedy Proposed Response Response Status W See comment. Make consistent throughout draft. NonEZ. Proposed Response Response Status W PROPOSED ACCEPT. EZ. C/ 104 SC 104.5.1 P 33 L 8 # 94 Maguire, Valerie Siemon C/ 104 SC 3.3.4 P 18 L 29 # 91 Comment Type Comment Status X Donahue, Curtis **UNH-IOL** I believe the convention is to use "shall" when a specification is mandatory. Comment Type Ε Comment Status D SuggestedRemedy "14.2.3.2" is an external reference and should be green. Consider replacing "must" with "shall". SuggestedRemedy Proposed Response Response Status W See comment. This also happens in 104.4.3.4. NonEZ.

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

Proposed Response

PROPOSED ACCEPT, EZ.

Cl 104 SC 104.5.3.1 P 32 L 50 # 95

Gardner, Andrew Linear Technology Cor

Comment Type T Comment Status X

Currently Clause 104 incorporates an amended return loss specification for 100BASE-T1 applications that use PoDL in order to relax the OCL requirement on the PoDL inductors by a factor of two. Given that the relative high-pass pole frequencies are the same for 1000BASE-T1, i.e. 10MHz HPF for 1000BASE-T1 vs. 1MHz HPF for 100BASE-T1, is there any reason why we can't do something similar for the 1000BASE-T1 MDI RL for PoDL?

SuggestedRemedy

Add an amended MDI return loss specification for 1000BASE-T1 PoDL applications as follows:

Return loss >=

18-18*log10(20/f)dB for 2 <= f < 20 18dB for 20 <= f < 100 18-16.7log10(f/100)dB for 100 <= f < 600

where f is in MHz.

Proposed Response Response Status W

NonEZ.

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