

IEEE 802.3bu Power over Data Lines 2nd Task Force review comments

Cl 104 SC 104.6.3.1 P 30 L 14 # 1 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Unmatched tenses: "The master shall then release its PI and goes into receive mode (RX)."  
 SuggestedRemedy  
 Change to: "The master shall then release its PI and go into receive mode (RX)."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.0 P 10 L 1 # 5 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 There are 2 page 10s  
 SuggestedRemedy  
 Renumber pages  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.6.3.3 P 30 L 53 # 2 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Bad text inherited from 1-wire spec: "...in order to find out the status..."  
 SuggestedRemedy  
 Change to: "...in order to determine the status..."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.1 P 12 L 8 # 6 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Space missing between "Clauses" and "96"  
 SuggestedRemedy  
 Add a space  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.6.3.3 P 31 L 1 # 3 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Missing space  
 SuggestedRemedy  
 "trec between"  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.3.3 P 15 L 41 # 11 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 A PSE does not "provide" state machine behavior  
 SuggestedRemedy  
 Change "provide" to "implement" - also in the PD section on page 22, line 32  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.6.3.3 P 31 L 2 # 4 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Bad grammar: "by pulling its PI port voltage low for tINIT and then release the port."  
 SuggestedRemedy  
 Change to: "by pulling its PI port voltage low for tINIT and then releasing the port."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.3.4.1 P 18 L 34 # 13 [REDACTED]  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 The phrase "The forced detection current or currents at the PI shall..." is unnecessarily verbose.  
 SuggestedRemedy  
 Replace with "All detection currents at the PI shall..."  
 Proposed Response Response Status W  
 EZ

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Cl 104 SC 104.3.5 P 19 L 30 # 15  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 The acronym "SCCP" is a proper noun - no "the" is required  
 SuggestedRemedy  
 Remove "The" - also in several other places in the document  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.3.5 P 19 L 30 # 16  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Add a reference to the SCCP section  
 SuggestedRemedy  
 Change to: "Classification is performed using SCCP. See section 104.6."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.3.6.2 P 20 L 6 # 18  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Table 104-3 is missing references to explanatory sections of text  
 SuggestedRemedy  
 Add references to text in "Additional Information" column (eg, 104.3.6.3 for item 6)  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.3.6 P 19 L 41 # 19  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 This text also appears (in clearer form) in section 104.3.6.7: "PClass is the minimum required PSE continuous output power for the relevant class"  
 SuggestedRemedy  
 Remove entire sentence  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.4.4 P 25 L 6 # 23  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Text is longer and less clear than it needs to be: "When a PD presents a valid or non-valid detection signature, it shall present the detection signature at the PI.  
 When a PD becomes powered via the PI, it shall present a non-valid detection signature."  
 SuggestedRemedy  
 Change to: "A PD shall present a detection signature, either valid or non-valid, at the PI. A PD shall present a non-valid detection signature when it is powered via the PI."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.4.6 P 25 L 48 # 24  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Passive voice: "The power supply of the PD shall operate within the characteristics in Table 104-6."  
 SuggestedRemedy  
 Change to: "The PD shall draw power according to Table 104-6."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.4.6.1 P 26 L 28 # 25  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 This section is formatted as a note, is non-normative, and relates to loop stability  
 SuggestedRemedy  
 Move to Annex 104A.1. The table entries can stand alone as normative here.  
 Proposed Response Response Status W  
 EZ

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CI 104 SC 104.4.6.3 P 26 L 45 # 26  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Title is too long  
 SuggestedRemedy  
 Change to "PD Stability"  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.4.6.4 P 27 L 17 # 27  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Text could be more clear:  
 "The specification for ripple and noise in Table 104–6 shall be for the noise at the PD PI generated..."  
 "The ripple and noise specification shall be for all operating voltages..."  
 "The PD shall operate correctly in the presence of ripple and noise generated by the PSE that appears at the PD PI. These levels are specified in Table 104–3. Limits are provided to preserve data integrity."  
 SuggestedRemedy  
 Change to:  
 "The specification for ripple and noise in Table 104–6 apply to the noise at the PD PI generated..."  
 "The ripple and noise specification shall be met for all operating voltages..."  
 "The PD shall operate correctly in the presence of ripple and noise generated by the PSE that appears at the PD PI, as specified in Table 104–3. Ripple and noise limits are provided to preserve data integrity."  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.4.7 P 27 L 34 # 28  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 "Require" is not exactly correct in this context, and the subsequent text is not helpful: "PDs in the powered state that no longer require power shall remove the current draw of the MPS."  
 SuggestedRemedy  
 Change to: "PDs in the powered state that no longer want power shall provide an invalid MPS at the PI."  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.6.2 P 29 L 25 # 29  
 Dwelley, David LTC  
 Comment Type E Comment Status X  
 Too much information. This is a spec, not a design guide: "After the reservoir is charged to the normal operating voltage level, there will be some ripple voltage caused by recharging pulses restoring charge lost during bus logic low times."  
 SuggestedRemedy  
 Remove the sentence.  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.6.3.2 P 30 L 38 # 31  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 Bad text inherited from 1-wire spec: "The master shall use a Write 1 time slot to write a logic 1..."  
 SuggestedRemedy  
 Change to: "The master shall use a Write 1 time slot to transmit a logic 1..."  
 Proposed Response Response Status W  
 EZ

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Cl 104 SC 104.4.4 P 25 L 3 # 37  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 Bad text inherited from PoE: "A PD presents a valid detection signature while it is in the DO\_DETECTION state when it accepts power via the PI, but is not powered via the PI". It is not accepting power if it is not powered.  
 SuggestedRemedy  
 Change "accepts" to "wants"  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.4.6.3 P 26 L 47 # 39  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 Voltage range definition is unclear: "When the PD is fed by VPort\_PSE min to VPort\_PSE max with RLoop in series..."  
 SuggestedRemedy  
 Change to: "When the PD is fed with any voltage between VPort\_PSE min and VPort\_PSE max and with RLoop\_max in series..."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.5.1 P 27 L 42 # 40  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 Legacy text inherited from PoE that isn't relevant to PoDL: "including those not used by the PD." All two MDI leads are used by PoDL.  
 SuggestedRemedy  
 Remove the text "including those not used by the PD"  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.6 P 28 L 32 # 41  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 This text refers to a master entity inside the PSE: "The SCCP uses a single master at the PSE PI to control...". From the spec's point of view, the PSE is the master.  
 Similar comment at line 37: "...where the master device sources..."  
 Similar comment at line 43: "The master device shall source..."  
 SuggestedRemedy  
 Change text to: "The PSE acts as the master during SCCP communications to control..."  
 Line 37: "...where the PSE sources..."  
 Line 43: "The PSE shall source..."  
 Proposed Response Response Status W  
 EZ

Cl 104 SC 104.6.3.1 P 30 L 8 # 42  
 Dwelley, David LTC  
 Comment Type T Comment Status X  
 "All communication..." could be misinterpreted as including Ethernet communications  
 SuggestedRemedy  
 Change to: "All SCCP communication..."  
 Proposed Response Response Status W  
 EZ

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CI 104 SC 104.3.4.2 P 19 L 3 # 66  
 Abramson, David Texas Instruments

Comment Type **TR** Comment Status **X**

Text needs to reference Vgood line in table 104-4. Without the reference to Vgood, the text infers that a PSE must check every item in table 104-4 before accepting a PD as valid.

In addition the text makes it sound like the probing current is specified in Table 104-4, which it is not.

*SuggestedRemedy*

change text from:

A PSE shall accept as a valid PD signature a link segment with a constant voltage in response to a probing current as specified in Table 104-4.

change text to:

A PSE shall accept as a valid PD signature a link segment with a constant voltage in the range of Vgood as specified in Table 104-4 in response to a probing current in the range lvalid as specified in Table 104-2.

Proposed Response Response Status **W**  
 EZ

CI 104 SC 104.4.6 P 25 L 49 # 72  
 Abramson, David Texas Instruments

Comment Type **TR** Comment Status **X**

The text "The power supply of the PD shall operate within the characteristics in Table 104-6." specifies a single part of the PD which we should not do. The PD is defined at the PI and all specifications should apply there. Furthermore, the specs listed in Table 104-6 apply to the entire PD, not just the power supply of the PD.

*SuggestedRemedy*

change text to:

"The PD shall operate within the characteristics in Table 104-6."

Proposed Response Response Status **W**  
 EZ

CI 104 SC 104.1 P 12 L 8 # 80  
 Abramson, David Texas Instruments

Comment Type **E** Comment Status **X**

"Clauses96" needs a space between Clauses and 96

*SuggestedRemedy*

See above

Proposed Response Response Status **W**  
 EZ

CI 104 SC 104.1.3 P 13 L 7 # 81  
 Abramson, David Texas Instruments

Comment Type **E** Comment Status **X**

Figures 104-1 and Figures 104-2 Should be swapped so that the PSE is first. The rest of the clause is written with the PSE first followed by the PD, this is the only place the reverse is true.

*SuggestedRemedy*

See above.

Proposed Response Response Status **W**  
 EZ

CI 104 SC 104.5.3.1 P 28 L 23 # 82  
 Abramson, David Texas Instruments

Comment Type **ER** Comment Status **X**

Equation reference is wrong.

*SuggestedRemedy*

Change "Equation 104-1" to "Equation 104-2"

Proposed Response Response Status **W**  
 EZ

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CI 104 SC 104.3.7.1 P 22 L 1 # 86  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 There is a missing space.  
 SuggestedRemedy  
 Replace: "APSE shall consider..."  
 With: "A PSE shall consider..."  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.1 P 12 L 8 # 88  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 missing space: "Clauses96 and 97."  
 SuggestedRemedy  
 add missing space:"Clauses 96 and 97."  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.1.1 P 12 L 35 # 89  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 c) A "T" is missing in "1000BASE-1"  
 SuggestedRemedy  
 Insert missing "T": "1000BASE-T1"  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.2 P 14 L 46 # 90  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 Table 104-1  
 Inconsistent use of "." and "," to indicate fractional part of a number.  
 SuggestedRemedy  
 In VPD(min) row, column III(48V)replace "28,8" with "28.8"  
 Proposed Response Response Status W  
 EZ

CI 00 SC 0 P L # 91  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 Note: All my comments use the page number at the bottom of the page, not the page number shown, for page 10 and higher as page 10 is in the document twice.  
 SuggestedRemedy  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.3.3 P 15 L 6 # 92  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 Figure 104-4  
 The lable of "B" that goes into the IDLE box is turned on its side.  
 SuggestedRemedy  
 Change the B to be oriented correctly, e.g. turn it 90 degrees.  
 Proposed Response Response Status W  
 EZ

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CI 104 SC 104.3.4.3 P 19 L 19 # 93  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 Incorrect table reference.  
 SuggestedRemedy  
 Change: Table 200-4  
 To: Table 104-4  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.6.3.3 P 31 L 1 # 96  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 missing space  
 SuggestedRemedy  
 Change: ...with tRECbetween slots.  
 to: ...with tREC between slots.  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.3.7.1 P 21 L 46 # 94  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 MPS in TMPS should be a subscript.  
 SuggestedRemedy  
 Make MPS in "...window TMPS wide..." a subscript.  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.6.3.3 P 31 L 24 # 97  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 In Figure 104-10, there are missing verticle lines in the Figure at the timing arrows for Slave Aamples and Master samples.  
 SuggestedRemedy  
 Add missing verticle lines to figure.  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.5.3.1 P 28 L 24 # 95  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 There are random carriage returns in the Note 1 text.  
 SuggestedRemedy  
 Remove random carriage returns  
 Proposed Response Response Status W  
 EZ

CI 104 SC 104.6.3.4 P 31 L 49 # 98  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status X  
 Incorrect reference.  
 SuggestedRemedy  
 Change reference to Figure 104-7  
 to reference to Table 104-7  
 Proposed Response Response Status W  
 EZ

IEEE 802.3bu Power over Data Lines 2nd Task Force review comments

CI 104 SC 104.6.3.4 P 32 L 10 # 99

Wienckowski, Natalie General Motors

Comment Type E Comment Status X

uA is centered and all other Units are left justified.

SuggestedRemedy

Left justify uA.

Proposed Response Response Status W

EZ