IEEE802.3.at
Draft 3.1

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Linear Technology

Problem

- Draft 3.1 changed definition of "valid PD detection signature" in section 33.2.6.1 pg. 54 line 47
  - Was: 23.75k ohms to 26.25k ohms
  - Is: 19k ohms to 26.5k ohms
- This makes some existing PSE implementations of 802.3-2005 now non-compliant because current probing for Detection may validate Vvalid (*if there are no bridge diodes in the PD during detection*)

Old origin of valid PD detection signature

- The **only** 802.3-2005 text where the phrase: "valid PD detection signature" is defined is in section 33.3.3 pg. 51 and Table 33-8 pg. 543 (52)

This violates Objective 4

- **Text of Objective 4**
  - The PoE Plus PSE shall operate in modes compatible with the existing requirements of IEEE STD 802.3af as well as enhanced modes.

Suggested Comment from the Floor

- Comment:
  - Draft 3.1 changed definition of "valid PD detection signature" in section 33.2.6.1 pg. 54 line 47
    - Was: 23.75k ohms to 26.25k ohms
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  - This makes some existing PSE implementations of 802.3-2005 now non-compliant because current probing for Detection may validate Vvalid (*if there are no bridge diodes in the PD during detection*)

- Suggested Remedy :
  - Change:
    - The detection voltage Vdetect shall be within the Vvalid voltage range at the PSE PI as specified in Table 33-4 with a valid detection signature as defined in **Table 33-5** connected.
  - To:
    - The detection voltage Vdetect shall be within the Vvalid voltage range at the PSE PI as specified in Table 33-4 with a valid detection signature as defined in **Table 33-14** connected.

Motion

- Move to consider the comment from Jeff Heath as contained in heath_1_0809.pdf
- Mover: Wael Diab Second: Matt Landry

- Yes: 20   No: 1   Abstain: 0