

Comments (#60, PD spec related)

1. Comment #60 (Clause 145.3.8.2 Page 195, line 45)

In the text "PDs may also adjust their maximum required operating power below PClass_PD or PClass_PD-2P by using Autoclass (see 145.3.6.2).", the Autoclass applies only for single-signature *or dual-signature operating over 2-pairs*.

See updated comment and remedy in darshan_05_0517.pdf

2. In 145.3.8.4 page 197 line 50 in the text:

"Peak power is defined in Table 145–28 and depends on the Class assigned by the PSE. *The equations in Table 145–28 are used to approximate the ratiometric peak powers of Class 1 through Class 8.* These equations may be used to calculate PPeak_PD or PPeak_PD-2P for Data Link Layer classification by substituting PClass_PD or PClass_PD-2P with PDMaxPowerValue and for Autoclass by substituting PClass_PD with PAutoclass_PD."

The equation is not in Table 145-28 it is in 145.3.8.4.1 but is required also in 145.3.8.4.

Proposed Remedy:

1. Make the following changes for clause 145.3.8.2 page 195 line 45):

"PDs may also adjust their maximum required operating power below PClass_PD (or PClass_PD-2P when dual-signature PD operates over 2-pairs) by using Autoclass (see 145.3.6.2)."

2. Make the following changes for clause 145.3.8.4 page 197 line 50):

145.3.8.4 Peak operating power

"Peak power is defined in Table 145–28 and depends on the Class assigned by the PSE. ~~The e~~Equations in Table 145–28 145-X and Equation 145-Y are used to approximate the ratiometric peak powers of Class 1 through Class 8. These equations may be used to calculate PPeak_PD or PPeak_PD-2P for Data Link Layer classification by substituting PClass_PD or PClass_PD-2P with PDMaxPowerValue and for Autoclass by substituting PClass_PD with PAutoclass_PD."

$$P_{\text{Peak_PD}} = 1.05 \times P_{\text{Port_PD}} \quad (145\text{-X})$$

$$P_{\text{Peak_PD-2P}} = 1.05 \times P_{\text{Port_PD-2P}} \quad (145\text{-Y})$$

Where

P_{Port_PD} as defined in Table 145-28

P_{Port_PD-2P} as defined in Table 145-28

145.3.8.4.1 Peak operating power exceptions

For Class 6 and Class 8 single-signature PDs and for Class 5 dual-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, in any operating condition with any static voltage at the PI, the peak power shall not exceed P_{Port_PD} for single-sig-nature PDs and P_{Port_PD-2P} for dual-signature PDs at the PSE PI for more than T_{CUT-2P} min, as defined in Table 145–16 and with 5% duty cycle. Peak operating power shall not exceed 1.05 × P_{Port_PD} for single-signature PDs and shall not exceed 1.05 × P_{Port_PD-2P} for dual-signature PDs on each pairset.

