33.2.6.7 4PID requirements

Type 3 and Type 4 PSEs shall determine whether an attached PD ~~with Classes 0 to 4~~ is a candidate to receive power on both pairsets prior to applying power to ~~the second~~ both pairsets. This determination is referred to as 4PID. 4PID shall be ~~initially (TBD)~~ determined as a logical function of the detection state of both pairsets, the result of connection check as described in 33.2.6.1, mutual identification, and the results ~~of other system information~~ of the Power via MDI TLV described in 79.3.2. It shall be stored in the variable PD_4pair_cand, defined in ~~33.2.5.4~~ 33.2.5.9.

PD_4pair_cand shall have a default value of 'FALSE', but may be set to 'TRUE' if the PSE has detected a valid detection signature on both pairsets and one or more of the following conditions are met:

  a) The connected PD is a single-signature PD

  b) The PSE detects a valid detection signature on the unpowered pairset when power has been applied to a pairset

  c) The PSE has identified the PD as Type 3 or Type 4

  d) The PD has set the PD 4P-ID bit to 'TRUE' in the System setup field as defined in 79.3.2.6b.2