

IEEE 802.bt D1.0 4-Pair Power over Ethernet 3rd Task Force review comments

CI 33 SC 33.2.5.6 P 54 L 47 # 245
 Schindler, Fred Seen Simply

Comment Type TR Comment Status R 4PID

The text "It shall be stored in the variable pd_4pair_candidate, defined in 33.2.4.4." Implies that variable pd_4pair_candidate indicates that the attached class 0 to 4 PD accepts power on both pair sets. This is incorrect.

The connection check (33.2.5.0) and detection alone are not able to determine if a legacy PD is able to accept power on both Modes. These methods reduce the likelihood of interoperability issues for PDs capable of accepting power on both Modes (single and dual signature PDs). The .3bt classification process provides a means to identify PD Types that accept power on both Modes. Classification results in the PD Type and LLDP data that indicates PD ability to accept power on both pair sets. Type 3 and Type 4 PDs are required to support power on both pair sets. Type 1 and Type 2 PDs may accept power on both pair sets.

SuggestedRemedy

Replace the entire text of 33.2.5.6 with,

"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 pair sets prior to applying 4 pair power. This determination is referred to as 4PID. Classification in 33.2.6 may be used to obtain the PD Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported."

.....
 Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1.

Response Response Status C
 REJECT.

O.o.t.

CI 33 SC 33.2.7 P 62 L 22 # 269
 Dwelley, David Linear Technology

Comment Type TR Comment Status R PSE Power

Table 33-11: Several symbols have -2p added to them. This breaks continuity with AF/AT - an AT device that claims to meet Vport_pse will not find a spec with that name anymore. New titles with "per pair set" can stay, as all valid AF/AT devices operated over a single pairset.

SuggestedRemedy

Remove -2p suffixes from Items 1 and 4-10.

Response Response Status C

REJECT.

This should be discussed by the group.

O.o.t.

CI 33 SC 33.3.7 P 87 L 36 # 270
 Dwelley, David Linear Technology

Comment Type TR Comment Status R Table 33-18

Table 33-18: Several symbols have -2p added to them. This breaks continuity with AF/AT - an AT device that claims to meet Vport_pd will not find a spec with that name anymore. New titles with "per pair set" can stay, as all valid AF/AT devices operated over a single pairset.

SuggestedRemedy

Remove -2p suffixes from Table 33-18, Items 1-3, 5, 6, and 9.

Response Response Status C

REJECT.

O.o.t.

IEEE 802.bt D1.0 4-Pair Power over Ethernet 3rd Task Force review comments

Cl 33 SC 33.3.7.3 P 90 L 90 # 365
Darshan, Yair Microsemi

Comment Type TR Comment Status R PD Inrush

Some of important PD factual behaviour was removed from lines 28-31 that was in IEEE802.3-2012.

The reason why they were removed is relevant to the PSE but not relevant for the PD as it is accurate physical behaviour of the PD i.e. Inrush current period ends when Cport is charged to 99% of its final value within a time duration of Tinrush-2P minimum per Table 33-11 etc.

SuggestedRemedy

Modify the text per the following instructions:

--- new text---

Strike text XXX: (Strike XXX):

Inrush current per pair-set is drawn beginning with the application of input voltage at the pair set compliant with Vport_PD-2P requirements as defined in Table 33-18, and ending --- when Cport is charged to 99% of its final value within a time duration of ---- (strike "before") Tinrush-2P minimum per Table 33-11. After Tinrush-2P min, the PD shall not exceed its per pair set current threshold corresponding to its class level.

Response Response Status C

REJECT.

O.o.t.