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PD Types for bt Standard

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Some thoughts before the discussion

- > AT/AF/BT PD is not standard terminology
- > PDs are categorized into types
- > Conflicting terms make discussions inefficient and confusing

Motivation

To achieve consensus on PD types in bt standard and use the terminologies in future discussions.



How do we categorize PDs?

- > By PD Power levels?
- 13W or 25.5W or 49W or 90W(TBD)
- > By Power channels?
- 2-pair PD or 4-pair PD
- > By cable current?
- 0.35 A, 0.6 A...

Suggestion 1: PD types for bt

Туре	Max Power Level	Number of pairs that PDs can simultaneously require power Note from	Current on PD PI (A)
1	≤ 13W	2P/4P	0.35
2	≤ 25.5W	2P/4P	0.6
3	≤ 51W ^{TBD}	4P	1.2 ^{TBD}
4	≤ 100W ^{TBD}	4P	TBD

- PD are categorized by power levels.
- Type 1 and Type 2 is reused for 4P PD which are allowed to require power simultaneously from ALT A and ALT B.
- Legacy Type 1 and Type 2 2P PDs are referred to AT/AF PDs in nowadays.

Note: PDs can accept power over 4 pairs or 2 pairs if not cause any problem.

Suggestion 2: PD types for bt

Туре	Max Power Level	Number of pairs that PDs can simultaneously require power from	Current on PD PI (A)
1	≤ 13W	2P	0.35
2	≤ 25.5W	2P	0.6
3	≤ 13W	4P	0.35
3	≤ 25.5W	4P	0.6
3	≤ 51W ^{TBD}	4P	1.2 ^{TBD}
4	≤ 100W ^{TBD}	4P	TBD

- PD are categorized by power levels and pairs used for requiring power simultaneously.
- New Types for 4P PDs.

Note: PDs can accept power over 4 pairs or 2 pairs if not cause any problem.



Thank you!

