Baseline Proposal
IEEE802.3bt – Four Pair PoE

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Bill Delveaux - Avaya
bdelveaux@avaya.com

Supporters

▸ Xxxy – company

Agreement on nomenclature

▸ **Problem Statement:**
- We have been using different terms to describe new PSEs and new PDs. Let's agree on what to call each one

▸ **Type 1 and Type 2 PDs**
- Allow green mode – receive Mode A and Mode B power simultaneously

▸ **Type 1 and Type 2 PSEs**
- Allow green mode – provide power on all 4-pairs

▸ **New higher power classification 4-pair PDs – two more power levels**

▸ **New higher power 4-pair PSEs – to match those PDs**

The current spec says:

▸ 1.4.x Type 1 PD: A PD that does not provide a Class 4 signature during Physical Layer classification (see IEEE 802.3, Clause 33).

▸ 1.4.x Type 1 PSE: A PSE that supports only a Type 1 PD (see IEEE 802.3, Clause 33).

▸ 1.4.x Type 2 PD: A PD that provides a Class 4 signature during Physical Layer classification, understands 2-Event classification, and is capable of Data Link Layer classification (see IEEE 802.3, Clause 33).

▸ 1.4.x Type 2 PSE: A PSE that supports both a Type 1 and a Type 2 PD (see IEEE 802.3, Clause 33).

Proposed Nomenclature – legacy w/4 pair power

▸ Type 1e PD: A Type 1 PD that can accept Mode A and Mode B power simultaneously.

▸ Type 1e PSE: A PSE that supports a Type 1 PD and a Type 1e PD.

▸ Type 2e PD: A Type 2 PD that can accept Mode A and Mode B power simultaneously.

▸ Type 2e PSE: A PSE that supports a Type 1 PD, Type 1e PD, Type 2 PD, and a Type 2e PD.

Proposed Nomenclature – higher power w/4 pair

▸ **Type 3m PD:** A PD that requires power on all 4 pairs and can draw power up to two times Type 2 power.

▸ **Type 3m PSE:** A PSE that provides two times Type 2 power, minus the imbalance margin as needed. A Type 3 PSE supports Type 1, Type 1e, Type 2, Type 2e, and Type 3 PDs.

▸ **Type 3h PD:** A PD that requires power on all 4 pairs and can draw power up to more than two times Type 2 power.

▸ **Type 3h PSE:** A PSE that provides 100W minus margin at the PSE PI. A Type 4 PSE supports Type 1, Type 1e, Type 2, Type 2e, Type 3 and Type 4 PDs.

Motion

▶ Adopt the nomenclature: blah blah

▶ For:

▶ Against:

▶ Abstain: