Classification Scenarios for 802.3af and 802.3at PSEs and PDs

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Classification Activity

- PDs may present either:
  - .af L1 Class Signature (0 – 4)
  - .at L1 Class Signature (1 – 4, new LP classes, new HP classes)
- PSEs may perform:
  - No L1 Classification
  - .af L1 Classification (one-pulse)
  - .at L1 Classification (two-pulse)
- PDs and PSEs may attempt L2 Classification

Proposed Possible
Results of Classification Activity

Primary PSE Classification Activity	PD Class Signature .af-type	PD Class Signature .at-type	.af- or .at-type plus Secondary L2 classification
None	Class 0	Class 0	Class 1 – 4, Many LP classes, Many HP classes
One-pulse	Class 0 - 4	Class 1 - 4	Class 1 – 4, Many LP classes, Many HP classes
Two-pulse	Class 0 - 4	Class 1 – 4, New LP classes, New HP classes	1 – 4, Many LP classes, Many HP classes

Proposed Rule for
PD Recognition of PSE

PD must assume .af PSE until it receives at least one "positive sign" :

- – Two-pulse L1 Classification probe
- – L2 Classification communication