Baseline for P_{Type} v110

Some formatting is for reviewing clarity and will be removed prior to baseline submission.

PSE Type Descriptions

Info (not part of baseline!)

Table 33-1a lists the permitted PSE Types. By adopting a clear definition for P_{Type} we can simplify Table 33-1a. The 15.4W Single-event line from Type 3 has been removed as this type of classification is now also considered Multiple-event.

Replace Table 33-1a as follows:

PSE Type	Maximum Class Supported	Supports 4-pair power	Low MPS support	Physical Layer Classification	Data Link Layer Classification	Optional Capability
Type 1	Class 3	No	No	Optional Single-Event	Optional	
Type 2	Class 4	No	No	Single-Event or Multiple-Event	Optional[2]	
Type 3	Class 4	Optional	Yes	Multiple-Event	Optional	Autoclass
Type 3	Class 6	Yes	Yes	Multiple-Event	Optional	Autoclass
Type 4	Class 8	Yes	Yes	Multiple-Event	Optional	Autoclass

33.2.7 Power supply output

Replace Table 33-11, Item 12 by:

Item	Parameter	Symbol	Unit	Min	Max	PSE Type	Add. Info
12	PSE Type Power	P_{Type}	W	15.4		1, 3	See 33.1.4, 33.2.7.11a
				30.0		2	
				45.0	99.9	4	

33.2.7.11a Type power

P_{Type} min is the minimum power a PSE is capable of sourcing. ~~must support to enable the highest class Class that a PSE of that Type can support.~~

~~Type 3 PSEs are not required to support P_{Type} if they are restricted to Class 5 power or lower.~~

~~Type 4 PSEs are not required to support P_{Type} if they are restricted to Class 7 power or lower.~~

Type 4 PSEs shall not source more power than P_{Type} max as specified in Table 33-11 calculated with any sliding window with a width up to 4 seconds. This equates to a maximum $I_{\text{Port-2P}}$ current ~~I_{TBDNAME}~~ I_{LPS} defined in Equation 33-7c.

Replace equation 33-7c as follows:

$$I_{\text{LPS}} = \min\left(\frac{P_{\text{Type}}\ \text{max}}{V_{\text{PSE}}} - I_{\text{Port-2P-other}},\ 1.3\right) \tag{33-7c}$$