DLL Classification v110

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September 1, 2014

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What if… there was no data link?

0% functionality

90% functionality

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What if… there was no power?

Non-functional lighting almost automatically leads to severe safety risks

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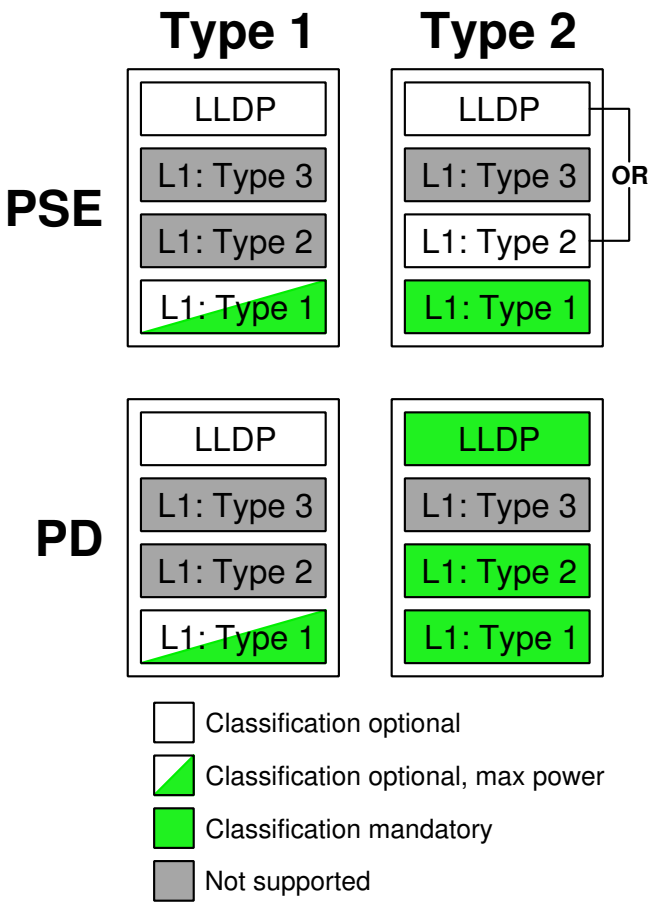
Type 2 classification

A Type 2 PSE may support either L1 classification and/or DLL classification. To obtain Type 2 power levels a PD must support both L1 and DLL classification.

If the PD does not observe 2 event classification it must use DLL to check if the PSE is a Type 2 PSE.



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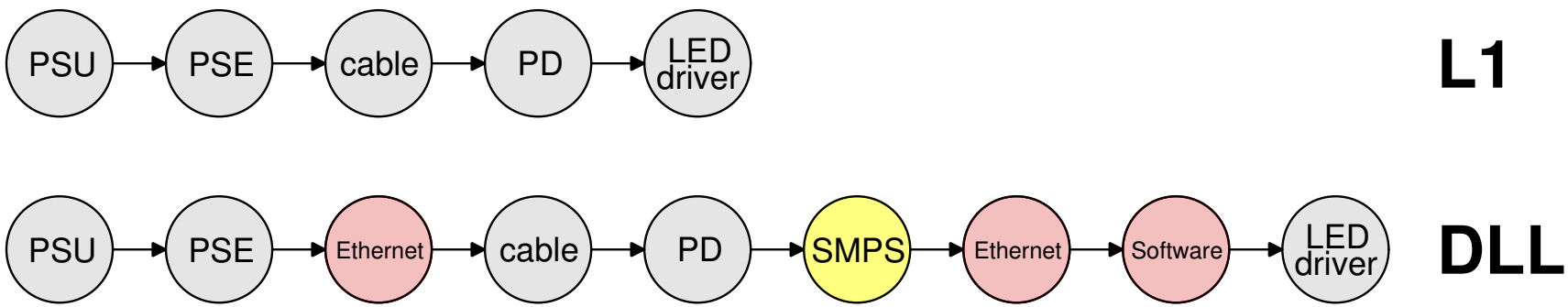
Reliability & robustness

Since a PSE is not required to support L1 classification, the PD may depend on DLL classification to be able to power up.

This add complicated (software!) and sensitive (ethernet transceiver) elements to the critical path.



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Summary

Robust Lighting

Depending on Ethernet and software *just to turn on* is a no-go for safety-critical applications such as lighting.

We need a solution that…

- Respects backward compatibility
- Allows full power (or autopower) without depending on DLL
- Works at least for Type 3 to Type 3 systems

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