

- The project will amend IEEE Std 802.3-2012 by amending Clause 33
- IEEE Std 802.3 will comply to the limited power source and SELV requirements as defined in ISO/IEC 60950
- Specify Mutual Identification to address four pair operation
- The standard shall not preclude the ability to meet FCC/ CISPR/EN Class A, Class B, Performance Criteria A and Performance Criteria B with data for all supported PHYs
- Support for operation over the following channels that have DC loop resistance of no greater than 25 ohms:
 - Class D or better 4-pair copper medium from ISO / IEC 11801:2002, including Amendments 1 & 2
 - Class D or better media from ISO / IEC 11801:1995
 - Category 5e or better cable and components as specified in ANSI/TIA-568-C.2
 - Category 5 cable and components as specified in ANSI/TIA/ EIA-568-A

Adopted by the IEEE 802.3 4PPoE Study Group May 2013

- ~~Investigate~~ Support operation with 10GBASE-T
- The project shall support a minimum of 49 Watts at the PD PI.
- Define parameters to limit maximum pair-to-pair current imbalance.
- 4PPoE PDs which operate at power levels consistent with IEEE 802.3-2012 PDs will interoperate with IEEE 802.3-2012 PSEs.
- 4PPoE PSEs will be backwards compatible with IEEE 802.3-2012 PDs.
- Update management parameters

Adopted by the IEEE 802.3 4PPoE Study Group July 2013