

PoEPlus Objectives

Consensus Objectives - Unvoted

CFI Promises

- High Power - to the limits of the physics
- Interoperation with 802.3 and other standards
- Power redundancy management at the port level
- Power Forwarding
- Distinction between 802.3af PD's and high power PD's
- New PDs will indicate to the user they are attached to a legacy PSE
- Enhancements as may come before the committee

Objective 1

- PoePlus will enhance 802.3af and work within its framework – there will be no new clause.

Objective 2

- The target infrastructure for PoEPlus will be ISO/IEC 11801-1995 Class D or higher systems. Further we will not cause a safety issue for a legacy installation conformant to ISO/IEC 60950.

Objective 3

- IEEE STD 802.3 will continue to comply to the limited power source and SELV requirements as defined in ISO/IEC 60950.

Objective 4

- The PSE shall operate all modes of IEEE STD 802.3af as well as enhanced modes.

Objective 5

- The enhanced standard will provide the maximum power to the PD as allowed within practical limits.

Objective 6

- PoEPlus shall support a minimum of 30 Watts of power at the PD PI.

Objective 7

- PoEPlus PDs, when connected to a legacy 802.3af PSE, will provide the user an indication that a PoEPlus PSE is required. This indication is in addition to any optional management indication that may be provided.

Objective 8

- Able to meet FCC / CISPR Class A. and B with data for all supported PHYs.

Objective 9

- Research potential extension of power classification to support PoEPlus modes.

Objective 10

- Research the operation of midspan PSEs for 1000BASE-T.

Objective 11

- Research the operations of midspan and endpoint PSEs for 10GBASE-T including providing cable heating data for evaluation by IEEE P802.3an.