

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 PoE Plus PSE shall operate in modes compatible with the existing requirements 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, which require a PoEPlus PSE, shall provide the user an active indication when connected to a legacy 802.3af PSE. This indication is in addition to any optional management indication that may be provided.

Objective 8

- The standard shall not preclude the ability to meet FCC / CISPR Class A, Class B, Performance Criteria A and Performance Criteria B with data for all supported PHYs.

Objective 9

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

Objective 10

- PoE Plus will vigorously pursue supporting 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.

Objective 12

- That IEEE 802.3af power over the MDI isolation requirements be revisited as part of the PoE Plus work.

Objective 13

- PoE Plus PDs within the power range of 802.3af will work properly with 802.3af PSEs.

Objective 14

PD Operation based on PSE

	IEEE Std 802.3af PSE	PoEP PSE
IEEE Std 802.3af PD	Operates	Operates
PoEP PD < 12.95W	Operates	Operates ^{Note 1}
PoEP PD > 12.95W	PD shall provide user active indication	Operates ^{Note 1}

Note 1: Operates with extended power classification