

PoE Objective for Next-Gen Enterprise Access BASE-T

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Support for PoE Objective for NGEABT

- Clause 33 already defines that PoE channels will maintain Class D requirements
 - 802.3bt is updating PoE with a PSE type to meet 10G requirements
- Bandwidths and noise sensitivities for NGEABT are expected to be less than 10GBASE-T (see CFI deck)
 - Requirements are cabling independent
 - PSEs and PD electronics that support 10GBASE-T levels will support NGEABT
- Feasibility has been shown in 802.3bt for 10GBASE-T POE:
 - http://www.ieee802.org/3/4PPOE/public/jul13/langner_1_0713.pdf
 - http://www.ieee802.org/3/bt/public/may14/darshan_2_0514.pdf
 - Requirements adopted:
 - http://www.ieee802.org/3/bt/public/nov14/darshan_03_1114.pdf
- Expectation is PoE support to be technically and economically feasible (easier) for NGEABT than for 10GBASE-T
 - Eventually will need Clause 33 text to reference support for BASE-T technologies between 1000BASE-T & 10GBASE-T bandwidths