

# PoE Objective for Next-Gen Enterprise Access BASE-T

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# Supporters

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- Shadi AbuGhazaleh, Hubbell
- Amrik Bains, Cisco
- Yakov Belopolsky, Stewart Connector
- Theodore Brillhart, Fluke
- David Chalupsky, Intel
- Jacky Chang, HP
- Kamal Dalmia, Aquantia
- John D'Ambrosia, Dell
- Yair Darshan, Microsemi
- Thuyen Dinh, Pulse
- Dan Dove, Dove Networking
- Jeff Heath, Linear Technology
- Chad Jones, Cisco
- Peter Jones, Cisco
- Shinkyō Kaku, Allied Telesis
- Yong Kim, Broadcom
- Hans Lackner, QoSCom
- Wayne Larsen, Commscope
- David Law, HP
- Jon Lewis, Dell
- Paul Vanderlaan, Berk-Tek
- Xiaofeng Wang, Qualcomm

# 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/3/4PPOE/public/jul13/langner_1_0713.pdf)
  - [http://www.ieee802.org/3/bt/public/may14/darshan\\_2\\_0514.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](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 speeds