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AMENDMENT 2
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Telecommunications and exchange between information technology systems — Requirements for local and metropolitan area networks —

Part 3:

Standard for Ethernet

AMENDMENT 2: Physical layer and management parameters for power over Ethernet over 4 pairs

*Télécommunications et échange entre systèmes informatiques —
Exigences pour les réseaux locaux et métropolitains —*

Partie 3: Norme pour Ethernet

*AMENDEMENT 2: Couche physique et paramètres de gestion pour la
puissance par ethernet sur 4 paires*



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Institute of Electrical and Electronics Engineers, Inc
3 Park Avenue, New York
NY 10016-5997, USA

Email: stds.ipr@ieee.org
Website: www.ieee.org

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IEEE Std 802.3bt™-2018
(Amendment to IEEE Std 802.3™-2018
as amended by IEEE Std 802.3cb™-2018)

IEEE Standard for Ethernet

Amendment 2: Physical Layer and Management Parameters for Power over Ethernet over 4 Pairs

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Approved 27 September 2018

IEEE-SA Standards Board

Abstract: The maximum Powered Device (PD) power available is increased by this amendment to IEEE Std 802.3-2018 by utilizing all four pairs in the specified structured wiring plant. This represents a substantial change to the capabilities of Ethernet with standardized power. The power classification information exchanged during negotiation is extended to allow meaningful power management capability. These enhancements solve the problem of higher power and more efficient standardized Power over Ethernet (PoE) delivery systems.

Keywords: amendment, DTE power via MDI, Ethernet, IEEE 802.3™, IEEE 802.3bt™, PoE, Power over Ethernet

*This standard is dedicated to the memory
of our friend and colleague Martin Patoka.*

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