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IEEE Publishes Three IEEE 802.3™ Standard Amendments to Meet Industry Demand for Greater Ethernet Functionality

Standard amendments provide physical layers, and associated control and management parameters, for increased network Ethernet speeds, enhanced backplane applications and improved delivery of power over Ethernet.

PISCATAWAY, NJ, XX April 2019 – IEEE, the world's largest technical professional organization dedicated to advancing technology for humanity, and the [IEEE Standards Association \(IEEE-SA\)](#) today announced the publishing and availability of three standard amendments to IEEE-Std 802.3 in response to evolving industry requirements for new and emerging Ethernet applications.

“The [IEEE 802.3 Ethernet Working Group](#) continues to deliver on its commitment to ongoing standard improvements that deliver real world operational scenarios and meet challenges faced by data network operators worldwide,” said David Law, IEEE 802.3 Working Group Chair.

“These refinements are essential to maintain Ethernet as the core technology driving advancements at data centers and throughout network infrastructures everywhere, as well as utilizing Ethernet to power the a wide variety of sensors, actuators, cameras and other devices associated with the Internet of Things.”

The three new standard amendments include:

- [IEEE 802.3cb™-2018](#)—IEEE Standard for Ethernet—Amendment 1: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane.

IEEE 802.3cb-2018 is available for purchase at the [IEEE Standards Store](#).

- [IEEE 802.3bt™-2018](#)—IEEE Standard for Ethernet Amendment 2: Physical Layer and Management Parameters for Power over Ethernet over 4 pairs.
IEEE 802.3bt-2018 is available for purchase at the [IEEE Standards Store](#).
- [IEEE 802.3cd™-2018](#)—IEEE Standard for Ethernet—Amendment 3: Media Access Control Parameters for 50 Gb/s and Physical Layers and Management Parameters for 50 Gb/s, 100 Gb/s, and 200 Gb/s Operation.
IEEE 802.3cd-2018 is available for purchase at the [IEEE Standards Store](#).

“The foresight, ingenuity and productivity of the thousands of volunteers developing the IEEE 802 family of standards since 1980 is truly remarkable, as evidenced by the worldwide impact their constantly evolving standards have had in response to ever changing market,” said Paul Nikolich, IEEE 802 LAN/MAN Standards chair.

Driven by the ever-growing demands of data networks around the world, products and services incorporating IEEE 802® standards technologies have become globally pervasive. New applications are continually deployed leveraging IEEE 802 network standards ranging across DC power distribution, wireless, copper cabling, and fiber-optic cabling solutions. The success of IEEE 802 standards—from their inception through today—has been reliant on their volunteers’ passionate adherence to an inclusive, fair, open and transparent development process.

To learn more about IEEE-SA or about any of its multitude of market initiatives visit us on [Facebook](#), follow us on [Twitter](#), connect with us on [LinkedIn](#) or on the [Beyond Standards Blog](#).

About the IEEE Standards Association

The IEEE Standards Association, a globally recognized standards-setting body within IEEE, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over 1,250 active standards and more than 700 standards under development. For more information visit <http://standards.ieee.org>.

About IEEE

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biomedical engineering, electric power, and consumer electronics. Learn more at <http://www.ieee.org>.

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