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IEEE Publishes New Ethernet Standards for Increased Broadband Speeds and Enabling New Automotive and Industrial Applications

IEEE 802.3cnTM and IEEE 802.3cgTM expand the IEEE 802.3TM standards family, providing Ethernet from 10 Mb/s to 400 Gb/s to meet a diverse set of growing applications and deployments

PISCATAWAY, NJ, XX March 2020 – IEEE, the world's largest technical professional organization dedicated to advancing technology for humanity, and [IEEE Standards Association \(IEEE SA\)](#) today announced the availability of two new Ethernet standards that meet industry requirements for achieving new applications and deployments. IEEE 802.3cn has been developed to meet the need for expanded high-speed broadband services worldwide that are being driven by the exponential growth in mobile video delivery. IEEE 802.3cg builds upon existing Ethernet automotive and industrial standards and additionally provides a cost-saving solution for a whole range of industrial and building automation applications.

The two new published IEEE SA standards are titled [IEEE 802.3cnTM](#) — Standard for Ethernet—Amendment 4: Physical Layers and Management Parameters for 50Gb/s, 200Gb/s, and 400Gb/s Operation over Single-Mode Fiber and [IEEE 802.3cgTM](#) — Standard for Ethernet—Amendment 5: Physical Layer Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors.

“The high rate of video on demand growth has set the tone for continued worldwide expansion of broadband services and a push for higher speeds,” said John D’Ambrosia, IEEE 802.3cn Task Force chair. “While the rate of growth may be different on a geographical basis, overall we continue to push forward with Ethernet advancements worldwide as a wide range of industries continue to find new and innovative ways for deploying the technology.”

IEEE 802.3 Ethernet standard advancements continue to be implemented in response to growing use cases across diverse industry adoptions and new applications.

“Today, we see manufacturers in both the industrial and the automotive world looking to integrate IEEE 802.3cg into their products,” said George Zimmerman, IEEE 802.3cg Task Force chair. “The standard opens the door for cost-effective solutions and will help drive innovation in the development of new applications.”

[IEEE 802.3cn](#) and [IEEE 802.3cg](#) are available for purchase at the [IEEE Standards Store](#).

“The IEEE 802 community has consistently delivered market-relevant and high-quality network standards over the past 40 years,” said Paul Nikolich, chair, IEEE 802 LAN/MAN Standards Committee. “These new IEEE 802.3 standard amendments are excellent examples of how the engineers of IEEE 802.3 incorporated innovative new features into the IEEE 802.3 base standard in response to market drivers.”

Beginning in February 1980, IEEE 802 encompasses a diverse library of standards addressing a broad array of protocols and applications. Deployment of technology defined by IEEE 802 standards is global, driven by the ever-growing needs of data networks and new application areas. IEEE 802 standards impact the world from wireless, through twisted-pair cabling, to fiber-optic cabling solutions. The IEEE 802 LAN/MAN Standards Committee is sponsored by the IEEE Computer Society, which advances the theory, practice and application of computer and information-processing science and technology, as well as the professional standing of its members. Individuals and organizations are encouraged to [learn more about and participate in IEEE 802 initiatives](#).

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

About IEEE Standards Association

IEEE Standards Association (IEEE SA) is a collaborative organization where innovators raise the world's standards for technology. IEEE SA provides a globally open, consensus-building environment and platform that empowers people to work together in the development of leading-edge, market-relevant technology standards and industry solutions shaping a better, safer and sustainable world. For more information, visit <https://standards.ieee.org>.

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