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IEEE Publishes Standard Specifying 200 Gb/s and 400 Gb/s Ethernet

IEEE Std P802.3bs™-2017 supports aggregation & high-bandwidth interconnectivity needed to meet rapidly increasing bandwidth demands

PISCATAWAY, NJ, XX March 2018 – IEEE, the world's largest technical professional organization dedicated to advancing technology for humanity, and the IEEE Standards Association (IEEE-SA), today announced the availability of IEEE Std P802.3bs-2017—Standard Amendment for Media Access Control (MAC) Parameters, Physical Layers and Management Parameters for 200 Gb/s and 400 Gb/s Operation. The new standard amendment addresses the growing diverse bandwidth requirements and cost considerations from network providers needed to meet the burgeoning high-bandwidth requirements driving a range of different application areas, such as cloud-scale data centers, internet exchanges, co-location services, and broadband wireless infrastructure.

"When you consider the notable move to 25-50 Gb/s Ethernet for servers and 100 Gb/s Ethernet for networks, it has become clear through proactive engagement with industry that 200 Gb/s and 400 Gb/s Ethernet is needed to meet growing capacity demand for high-bandwidth services today and for the future," said John D'Ambrosia, chair, IEEE P802.3bs and senior principal engineer, Futurewei, a subsidiary of Huawei. "The publication of IEEE Std 802.3bs-2017 represents a nearly 5-year endeavour to ensure Ethernet's continuing support of the accelerating curve for higher bandwidth that can support ongoing robust industry growth and expansion."

Deployment of technology defined by IEEE 802® standards is already globally pervasive, driven by the ever-growing needs of data networks around the world. New application areas are constantly being considered that might leverage IEEE 802 standards in their networks from wireless, through twisted-pair cabling, to fiber-optic cabling solutions. To better address the needs of all of these areas, IEEE 802 standards are constantly evolving and expanding. The success of IEEE 802 standards—from their inception through today—has been based upon their fair, open and transparent development process.

IEEE Std 802.3bs-2017—Standard Amendment for Media Access Control (MAC) Parameters, Physical Layers and Management Parameters for 200 Gb/s and 400 Gb/s Operation is available for purchase at the IEEE Standards Store[BW1].

To learn more about IEEE-SA, 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 1,200 active standards and over 650 standards under development. For more information visit http://standards.ieee.org.

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