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IEEE Launches Yearlong Effort to Assess Rapidly Diversifying Ethernet Bandwidth Needs Around the World

IEEE 802.3™ Industry Connections New Ethernet Applications Ad Hoc seeks input from technology's expanding range of application spaces globally

PISCATAWAY, NJ, XX Month 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 launch of a one-year effort to assess the Ethernet bandwidth requirements of industry globally. The IEEE 802.3™ Industry Connections New Ethernet Applications Ad Hoc invites input from individuals and organizations worldwide on any data they possess related to their future network bandwidth growth trends.

"The first IEEE 802.3 Ethernet Bandwidth Assessment report, published in 2012, was extensively referenced in industry reporting and roadmapping and greatly informed innovation around IEEE 802.3, *IEEE Standard for Ethernet*," said John D'Ambrosia, chair of the ad hoc. "The diversity of demands on Ethernet networks has exploded in the years since, and now it is time to reassess industry's current and foreseeable bandwidth needs around the world. I am excited to learn more about the use-case models that are unfolding and emerging applications that are taking shape worldwide."

Regularly updated with expanded capacity and features to support market demand since the IEEE 802.3 standard's initial approval in 1983, Ethernet is

developing amid unprecedented innovation on multiple fronts. Bandwidth demand on the technology is diversifying both across and within application spaces. ~~Not only is the~~The technology ~~is~~ being increasingly leveraged in industrial, data-center interconnect, mobile backhaul, augmented reality, and virtual reality~~, etc., for example~~ applications. Meanwhile, it ~~also~~ is shouldering fundamentally different services within the automotive industry~~—Ethernet both undergirds~~, supporting application traffic within the vehicle ~~and provides~~as well as the wired backhaul connectivity for wireless traffic between the vehicle and the environment and infrastructure around it. Furthermore, Ethernet bandwidth needs are varying sharply from geographic region to region around the world.

The IEEE 802.3 Industry Connections New Ethernet Applications Ad Hoc seeks input from industry spanning the technology's rapidly growing scope of use cases. The effort to produce the second bandwidth-assessment report is to be introduced at the IEEE 802.3 Interim Meeting, hosted by Dell EMC, 10-14 September 2018 in Spokane, WA, USA. To learn more about sharing bandwidth trends either in person or by teleconference, organizations also can visit the ad hoc's website.

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.

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 1,250 active standards and over 650 standards under development. For more information visit http://standards.ieee.org.

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