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IEEE Publishes IEEE 802.3bu™ for Provisioning Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet

Standard amendment adds specifications and management parameters for the provision of power via a single twisted pair to connected Data Terminal Equipment (DTE)

PISCATAWAY, NJ, XX February 2017 – 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 802.3bu™-2016—Standard for Physical Layer and Management Parameters for Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet.

Initially developed to support automotive manufacturer's increasing demand for Ethernet connectivity in vehicles, and to allow for the utilization of the same lighter weight data cabling for power delivery, IEEE 802.3bu-2016 defines specifications and parameters for standardization. The standard amendment supports the latest single balanced twisted-pair Ethernet physical layers, 100BASE-T1 and 1000BASE-T1, using unshielded twisted-pair cable—a relatively low-cost cabling solution for the automotive industry resulting in reduced weight and cost, and increased reliability due to the need for fewer cables and connectors in automotive applications.

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“The amendment to IEEE 802.3bu was initiated due to the increased utilization of Ethernet in automobiles, but it also holds a good deal of promise for further applicability across a wide range of industries and within a rapidly growing Internet of Things ecosystem,” said Dan Dove, chair, IEEE P802.3bu Task Force. “The standard revision defines a power delivery protocol that supports multiple voltages, multiple classes of power delivery at each voltage, with assured fault protection and detection capabilities for identifying device signatures, as well as communicating directly with devices to determine accurate and safe power delivery.”

IEEE 802.3bu-2016 is available for purchase at the IEEE Standards Store.

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 due to 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 Standards Insight 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 1,100 active

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standards and more than 500 standards under development. For more information visit http://standards.ieee.org.

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