

1 **NOT FOR IMMEDIATE RELEASE**
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9 **IEEE 802.3™ ETHERNET INNOVATION CONTINUES WITH LAUNCH**
10 **OF NEW PROJECTS TO GROW STANDARD'S CAPABILITIES AND RELEVANCE**

11 *New amendments underway to expand IEEE 802.3's usefulness in emerging application areas,*
12 *and Industry Connections activity initiated to explore next-generation EPON*
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14 **PISCATAWAY, N.J., USA, 17 December 2013** – IEEE, the world's largest professional
15 organization dedicated to advancing technology for humanity, today announced approval of
16 three new standards-development projects and an IEEE Standards Association (IEEE-SA)
17 Industry Connections activity that are all intended to expand the capabilities and relevance of
18 the IEEE 802.3™ "Standard for Ethernet." Work is underway to amend the base standard in
19 multiple ways so that it is more useful in emerging application areas, and the new Industry
20 Connections activity will engage global industry in discussion of the next-generation Ethernet
21 Passive Optical Network (EPON).
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23 IEEE P802.3br™ "Draft Standard for Ethernet Amendment Specification and Management
24 Parameters for Interspersing Express Traffic" is being developed to address the market need in
25 emerging IEEE 802.3 Ethernet application areas such as audio/video, automotive, industrial
26 automation and transportation (aircraft, railway and heavy trucking) to cost-effectively converge
27 low-latency and best-effort traffic streams on the same physical connections. Currently, such
28 functionality requires multiple networks with parallel links, but, when completed, IEEE P802.3br
29 would amend the base standard to support interspersed express traffic. For more information on
30 development of IEEE P802.3br, please visit [XXX](#).
31

32 IEEE P802.3bt™ "Draft Standard for Ethernet Amendment: Physical Layer and Management
33 Parameters for DTE Power via MDI over 4-Pair" is being developed to address the market need
34 for more robust and efficient Power over Ethernet (PoE) capabilities. Applications such as
35 pan/tilt/zoom security cameras, Internet Protocol (IP) videophones, kiosks, point-of-sale (POS)
36 terminals, thin clients, multi-radio wireless nodes and access points, laptop computers, RFID

Comment [EN1]: To be updated with IEEE-SA link to the project when that page is published.

1 readers and building management have demonstrated need for more power, and, when
2 completed, the new IEEE 802.3 amendment would be intended to increase the power and
3 efficiency of PoE. For more information on development of IEEE P802.3bt, please visit ~~XXX~~.

Comment [EN2]: To be updated with IEEE-SA link to the project when that page is published.

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5 IEEE P802.3bu™ “Draft Standard for Ethernet Amendment: Physical Layer and Management
6 Parameters for 1-Pair Power over Data Lines” is being developed to extend PoE to data
7 terminal equipment (DTE) via a single twisted pair IEEE 802.3 Ethernet connection. The
8 availability of power on the single-pair data interface would remove the need for separate power
9 wiring for applications in emerging Ethernet markets such as automotive, transportation and
10 industrial automation. For more information on development of IEEE P802.3bu, please visit
11 ~~XXX~~.

Comment [EN3]: To be updated with IEEE-SA link to the project when that page is published.

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13 Also, the IEEE 802.3 Industry Connections Activity for Next Generation Ethernet Passive
14 Optical Network (NG-EPON) has been launched to explore the market potential and technology
15 options for an NGEPON operating at data rates beyond 10 Gigabit per second (10Gbps). EPON
16 is widely deployed for a number of applications, including residential and commercial subscriber
17 access (for voice, video and data) and mobile backhaul. Equipment vendors and network
18 operators, particularly in Asia and North and South America, are interested in exploring the
19 technologies available for the next generation of EPON. For more information about the IEEE
20 802.3 Industry Connections Activity for Next Generation Ethernet Passive Optical Network (NG-
21 EPON), please visit ~~XXX~~.

Comment [EN4]: To be updated with IEEE-SA link to the project when that page is published.

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23 Through Industry Connections, the IEEE-SA facilitates like-minded organizations and individuals
24 coming together quickly, effectively and economically to build consensus at strategic points in a
25 technology’s lifecycle. Industry Connections activities have the unique opportunity to leverage
26 IEEE resources in a customized format to produce a variety of shared results. For more
27 information about the IEEE-SA’s Industry Connections program, please visit
28 standards.ieee.org/industryconnections.

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30 With more than 1.2 billion ports deployed in 2012 alone¹, Ethernet is a technology that impacts
31 day-to-day life globally. Initially developed in order to standardize connectivity among
32 computers, printers, servers and other devices inside a local area network (LAN), IEEE 802.3

¹ <http://www.ospmag.com/issue/article/CE-ing-Carrier-Ethernets-Future>

1 Standard for Ethernet touches a tremendous range of established and emerging technologies,
2 including data-center networks, personal computers, laptops, tablets, smartphones, subscriber
3 access, cellular backhaul, power infrastructure and smart meters, personal medical devices and
4 the Internet of Things, in addition to connected cars.

5
6 For more information about the IEEE 802.3 Ethernet Working Group, please visit
7 <http://standards.ieee.org/develop/wg/WG802.3.html>. To learn more about Ethernet, please visit
8 <http://standards.ieee.org/events/ethernet/> or join the conversation at
9 <http://www.facebook.com/Ethernet40thAnniversaryIEEEESA>. At the IEEE-SA Ethernet
10 Anniversary Facebook page, individuals may enter and judge the “I Spy Ethernet IEEE 802.3”
11 contest between 1 November and 31 December 2013. Open to both young and experienced
12 technology innovators, inventors and architects around the world, the contest
13 seeks submissions of photographs or drawings of unique, groundbreaking or visionary uses of
14 Ethernet.

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16 To learn more about IEEE-SA, visit us on Facebook at <http://www.facebook.com/ieeesa>, follow
17 us on Twitter at <http://www.twitter.com/ieeesa>, connect with us on LinkedIn at
18 <http://www.linkedin.com/groups?gid=1791118> or on the Standards Insight Blog at
19 <http://www.standardsinsight.com>.

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21 **About the IEEE Standards Association**

22 The IEEE Standards Association, a globally recognized standards-setting body within IEEE,
23 develops consensus standards through an open process that engages industry and brings
24 together a broad stakeholder community. IEEE standards set specifications and best practices
25 based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over
26 900 active standards and more than 500 standards under development. For more information
27 visit <http://standards.ieee.org/>.

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29 **About IEEE**

30 IEEE, a large, global technical professional organization, is dedicated to advancing technology
31 for the benefit of humanity. Through its highly cited publications, conferences, technology
32 standards, and professional and educational activities, IEEE is the trusted voice on a wide
33 variety of areas ranging from aerospace systems, computers and telecommunications to
34 biomedical engineering, electric power and consumer electronics. Learn more at
35 <http://www.ieee.org>.

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