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5 Contact: Shuang Yu, Senior Manager, Solutions Marketing
6 +1 732-981-3424, shuang.yu@ieee.org
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9 **IEEE 802.3™ ETHERNET INNOVATION CONTINUES WITH LAUNCH**
10 **OF NEW PROJECTS TO GROW THE STANDARD'S CAPABILITIES AND**
11 **RELEVANCE**

12 *New amendments underway to expand IEEE 802.3's usefulness in emerging application areas,*
13 *and Industry Connections activity initiated to explore next-generation EPON*
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15 **PISCATAWAY, N.J., USA, 17 December 2013** – IEEE, the world's largest professional
16 organization dedicated to advancing technology for humanity, today announced initiation of
17 three new standards-development projects and an IEEE Standards Association (IEEE-SA)
18 Industry Connections activity that are all intended to expand the capabilities and relevance of
19 the IEEE 802.3™ “Standard for Ethernet.” Work is underway to amend the base standard in
20 multiple ways so that it is more useful in emerging application areas, and the new Industry
21 Connections activity will engage global industry in discussion of the next-generation Ethernet
22 Passive Optical Network (EPON).
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24 IEEE P802.3br™ “Draft Standard for Ethernet Amendment Specification and Management
25 Parameters for Interspersing Express Traffic” is being developed to address the market need in
26 emerging IEEE 802.3 Ethernet application areas such as audio/video, automotive, industrial
27 automation and transportation (aircraft, railway and heavy trucking) to cost-effectively converge
28 low-latency and best-effort traffic streams on the same physical connections. Currently, such
29 functionality requires multiple networks with parallel links, but, when completed, IEEE P802.3br
30 would amend the base standard to support interspersed express traffic. For more information on
31 development of IEEE P802.3br, please visit [XXX](#).
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33 IEEE P802.3bt™ “Draft Standard for Ethernet Amendment: Physical Layer and Management
34 Parameters for DTE Power via MDI over 4-Pair” is being developed to address the market need
35 for more robust and efficient Power over Ethernet (PoE) capabilities. Applications such as
36 pan/tilt/zoom security cameras, Internet Protocol (IP) videophones, kiosks, point-of-sale (POS)

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

1 terminals, thin clients, multi-radio wireless nodes and access points, laptop computers, RFID
2 readers and building management have demonstrated need for more power, and, when
3 completed, the new IEEE 802.3 amendment would be intended to increase the power and
4 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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6 IEEE P802.3bu™ “Draft Standard for Ethernet Amendment: Physical Layer and Management
7 Parameters for 1-Pair Power over Data Lines” is being developed to extend PoE to data
8 terminal equipment (DTE) via a single twisted pair IEEE 802.3 Ethernet connection. The
9 availability of power on the single-pair data interface would remove the need for separate power
10 wiring for applications in emerging Ethernet markets such as automotive, transportation and
11 industrial automation. For more information on development of IEEE P802.3bu, please visit
12 [XXX](#).

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

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

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

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31 With more than 1.2 billion ports deployed in 2012 alone¹, Ethernet is a technology that impacts
32 day-to-day life globally. Initially developed in order to standardize connectivity among

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

1 computers, printers, servers and other devices inside a local area network (LAN), the IEEE
2 802.3 Standard for Ethernet touches a tremendous range of established and emerging
3 technologies, including data-center networks, personal computers, laptops, tablets,
4 smartphones, subscriber access, cellular backhaul, power infrastructure and smart meters,
5 personal medical devices and the Internet of Things, in addition to connected cars.

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

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

21 22 **About the IEEE Standards Association**

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

29 30 **About IEEE**

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

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