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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](#)  
17 [approval](#) of three new standards-development projects and an IEEE Standards Association  
18 (IEEE-SA) Industry Connections activity that are all intended to expand the capabilities and  
19 relevance of the IEEE 802.3™ “Standard for Ethernet.” Work is underway to amend the base  
20 standard in multiple ways so that it is more useful in emerging application areas, and the new  
21 Industry Connections activity will engage global industry in discussion of the next-generation  
22 Ethernet Passive Optical Network (EPON).  
23

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](#).  
32

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](#).

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

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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](http://standards.ieee.org/industryconnections).

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31 With more than 1.2 billion ports deployed in 2012 alone<sup>1</sup>, Ethernet is a technology that impacts  
32 day-to-day life globally. Initially developed in order to standardize connectivity among

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<sup>1</sup> <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.

6  
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/>.

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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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