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7 **IEEE 802.22.2™-2012 STANDARD COMPLETED FOR INSTALLATION AND**
8 **DEPLOYMENT OF WIRELESS REGIONAL AREA NETWORKS IN TV**
9 **WHITESPACES**

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11 **PISCATAWAY, N.J., USA, XX January 2013** – IEEE, the world's largest professional
12 organization advancing technology for humanity, today announced that the IEEE
13 802.22™ Working Group (WG), recipient of the IEEE Standards Association (IEEE-SA)
14 Emerging Technology Award, has completed and published the IEEE 802.22.2™
15 Standard for installation and deployment of the IEEE 802.22-2011 Standard on Wireless
16 Regional Area Networks and the IEEE 802.22.1™-2010 Standard.
17

18 IEEE 802.22 systems will provide broadband access to wide regional areas globally and
19 bring reliable and secure high-speed communications to under-served and un-served
20 rural communities, which are estimated to include nearly half of the world's population.
21 The IEEE 802.22-2011 is the first IEEE 802® standard for operation in the Television
22 (TV) Whitespaces, defined as the available or un-occupied TV channels. It is also the
23 first IEEE standard that focuses on broadband connectivity in rural areas where most
24 vacant TV channels can be found, thus helping to bridge the “digital divide.”
25 WhiteSpace Alliance™ has adopted the IEEE 802.22-2011™ into its Wi-FAR™
26 specification.
27

28 This IEEE standard for Wireless Regional Area Networks (WRANs) takes advantage of
29 the favorable transmission characteristics of the VHF and UHF TV bands to provide
30 broadband wireless access over a large area up to 100 km from the transmitter. Each
31 WRAN could deliver 22 Mbps to 29 Mbps, depending upon the country of deployment,
32 without interfering with reception of existing TV broadcast stations.
33

34 IEEE 802.22 incorporates advanced cognitive radio capabilities including dynamic
35 spectrum access, incumbent database access, accurate geolocation techniques,
36 spectrum sensing, regulatory domain dependent policies, spectrum etiquette, and -
37 coexistence for optimal use of the available spectrum.
38

39 The IEEE 802.22.2 Standard will help the deployment of 802.22 systems in a manner
40 that complies with the local regulatory requirements while ensuring that no interference
41 is caused to TV Broadcast systems and licensed auxiliary services.

42 “Publication of the IEEE 802.22.2-2012 Standard will help installation and deployment of
43 IEEE 802.22-2011 Standards based WRANs to bring cost-effective broadband access
44 to rural and remote communities all over the world,” said Dr. Apurva N. Mody, Chairman
45 of the IEEE 802.22 Standards Working Group.

1 Additional information on the standard can be found at the IEEE-SA standards page. To
2 purchase IEEE 802.22.2., visit the [IEEE Standards Store](#).

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4 To learn more about IEEE-SA, visit us on Facebook at <http://www.facebook.com/ieeesa>,
5 follow us on Twitter at <http://www.twitter.com/ieeesa> or connect with us on the
6 Standards Insight Blog at <http://www.standardsinsight.com>.

8 **About the IEEE Standards Association**

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

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