**Un-approved DRAFT 12th, November 2012**

Contact:  
Shuang Yu, Senior Manager, Solutions Marketing  
+1 732 981 3424; shuang.yu@ieee.org

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

**PISCATAWAY, N.J., USA, XX November 2012** – IEEE, the world's largest professional organization advancing technology for humanity, today announced that the IEEE 802.22™ Working Group (WG), recipient of the IEEE Standards Association (IEEE-SA) Emerging Technology Award, has completed and published the IEEE 802.22.2™ Standard for installation and deployment of the IEEE 802.22-2011Standard on Wireless Regional Area Networks and the IEEE 802.22.1TM-2010 Standard.

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

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

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

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

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

Additional information on the standard can be found at the [IEEE](http://www.ieee802.org/22/)-SA standards page. To purchase IEEE 802.22.2., visit the [IEEE Standards Store](http://www.techstreet.com/ieee/cgi-bin/detail?vendor_id=4742).

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

**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 900 active standards and more than 500 standards under development. For more information visit <http://standards.ieee.org/>.

**About IEEE**

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_