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

**PISCATAWAY, N.J., USA, 12th November 2012** – IEEE, the world's largest professional association advancing technology for humanity, today announced that the IEEE 802.22.2TM  Standard for installation and deployment of IEEE 802.22 Wireless Regional Area Networks has been published. The IEEE 802.22 Working Group (WG) is recipient of the IEEE Standards Association (IEEE-SA) Emerging Technology Award.

The IEEE 802.22 WG has published the IEEE 802.22TM-2011Standard on Wireless Regional Area Networks (also known as Wi-FAR™) and the IEEE 802.22.1TM-2010 standards. IEEE 802.22 systems will provide broadband access to wide regional areas around the world 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”.

This 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 TV Broadcast systems and licensed auxiliary services.

Additional information on the standard can be found at the [IEEE 802.22 WG](http://www.ieee802.org/22/) page. To purchase IEEE 802.22, visit the [IEEE Standards Store](http://www.techstreet.com/ieee/cgi-bin/detail?vendor_id=4742).

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