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3 **NOT FOR RELEASE**

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5 Contact:
6 Shuang Yu, Marketing Manager
7 +1 732 981 3424; shuang.yu@ieee.org
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9 **IEEE 802.22™-2011 STANDARD FOR WIRELESS REGIONAL AREA NETWORKS IN**
10 **TV WHITESPACES COMPLETED**

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12 **PISCATAWAY, N.J., USA, XX July 2011** – IEEE, the world's largest professional
13 association advancing technology for humanity, today announced that it has published
14 the IEEE 802.22™ standard. IEEE 802.22 systems will provide broadband access to
15 wide regional areas around the world and bring reliable and secure high-speed
16 communications to under-served and un-served communities.
17

18 This new standard for Wireless Regional Area Networks (WRANs) takes advantage of
19 the favorable transmission characteristics of the VHF and UHF TV bands to provide
20 broadband wireless access over a large area up to 100 km from the transmitter. Each
21 WRAN will deliver up to 22 Mbps per channel without interfering with reception of
22 existing TV broadcast stations, using the so-called white spaces between the occupied
23 TV channels. This technology is especially useful for serving less densely populated
24 areas, such as rural areas, and developing countries where most vacant TV channels
25 can be found.
26

27 IEEE 802.22 incorporates advanced cognitive radio capabilities including dynamic
28 spectrum access, incumbent database access, accurate geolocation techniques,
29 spectrum sensing, regulatory domain dependent policies, spectrum etiquette, and
30 coexistence for optimal use of the available spectrum.
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33 The IEEE 802.22 Working Group started its work following the Notice of Inquiry issued
34 by the United States Federal Communications Commission on unlicensed operation in
35 the TV broadcast bands.
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37 Additional information on the standard can be found at the [IEEE 802.22 WG](#) page. To
38 purchase the standard, visit the [IEEE Standards Store](#).
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41 follow us on Twitter at <http://www.twitter.com/ieeesa> or connect with us on the
42 Standards Insight Blog at <http://www.standardsinsight.com>.
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44 **About the IEEE Standards Association**

45 The IEEE Standards Association, a globally recognized standards-setting body within
46 IEEE, develops consensus standards through an open process that engages industry

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2 and best practices based on current scientific and technological knowledge. The IEEE-
3 SA has a portfolio of over 900 active standards and more than 500 standards
4 under development. For more information visit <http://standards.ieee.org/>.

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