1	Un-approved DRAFT 12, January 2013
2	Contactu
3	Contact:
4	Shuang Yu, Senior Manager, Solutions Marketing
5	+1 732 981 3424; shuang.yu@ieee.org
6 7	IEEE LAUNCHES 802.22.1 [™] -2010 REVISION PROJECT ON ADVANCED
8	BEACONING TO ENABLE SPECTRUM SHARING AND FACILITATE OPENING UP
9	OF NEW 2 GHz – 4 GHz SPECTRUM FOR FIXED AND MOBILE WIRELESS
10	BROADBAND APPLICATIONS
11	
12	PISCATAWAY, N.J., USA, XX March 2013 – IEEE, the world's largest professional
12	organization advancing technology for humanity, today announced that it has authorized
14	the revision project to add advanced beaconing capabilities to the IEEE 802.22.1™-
15	2010 to enable spectrum sharing in 2 GHz to 4GHz band and facilitate opening up of
16	new spectrum to support a wide variety of wireless applications.
17	
18	"Such a standardized advanced beacon is an innovative way to enable spectrum
19	sharing in many bands and for many innovative applications," said Dr. Apurva N. Mody,
20	chairman of the IEEE 802.22™ Standards Working Group.
21	
22	This revision project was introduced to support the United States President's Council of
23	Advisors on Science and Technology (PCAST) report promoting the sharing and more
24	efficient use of spectrum through new cognitive radio technologies and interference
25	mitigation techniques to make 500 megahertz of new spectrum available for fixed and
26	mobile wireless broadband.
27	
28	Currently, a database service approach has been proposed to communicate information
29	about, exclusion zones to protect U.S. Navy coastal operations and other Department of
30	Defense (DOD) test and training areas. Such an approach may deprive significant US
31	population from enjoying this newly available spectrum.
32	Lieuwayan advanced becausing annual back average at the ana devalated in IEEE
33	However, advanced beaconing approaches, such as the one developed in IEEE
34 35	802.22.1-2010 originally designed for interference protection of licensed wireless
35 36	microphones may be used for these bands. Such an advanced beacon could be transmitted by the primary users in these bands to enable semi real time and dynamic
30 37	spectrum sharing and make this spectrum available nationwide, and especially in the
38	significantly populated coastal areas.
39	significanti y populated coastal areas.
40	The IEEE 802.22 Working Group (WG), recipient of the IEEE Standards Association
41	(IEEE-SA) Emerging Technology Award, has completed and published the IEEE
42	802.22-2011 [™] Standard on cognitive radio based Wireless Regional Area Networks
43	that provides broadband access to wide regional areas globally and bring reliable and
44	secure high-speed communications to under-served and un-served rural communities.
45	

- 1 The IEEE P802.22.1 Task Group is accepting calls for contribution from interested
- 2 participants for the development of this standard. Work on this project will begin
- 3 following the March 2013 IEEE 802[®] plenary session in Orlando, Florida.
- 4
- 5 Additional information on the standard can be found at the IEEE-SA standards page. To
- purchase IEEE 802.22 Standards, visit the <u>IEEE Standards Store</u>.
- 8 To learn more about IEEE-SA, visit us on Facebook at <u>http://www.facebook.com/ieeesa</u>,
- 9 follow us on Twitter at http://www.twitter.com/ieeesa or connect with us on the
- 10 Standards Insight Blog at <u>http://www.standardsinsight.com</u>.
- 11

12 About the IEEE Standards Association

- 13 The IEEE Standards Association, a globally recognized standards-setting body within
- 14 IEEE, develops consensus standards through an open process that engages industry
- 15 and brings together a broad stakeholder community. IEEE standards set specifications
- 16 and best practices based on current scientific and technological knowledge. The IEEE-
- 17 SA has a portfolio of over 900 active standards and more than 500 standards
- 18 under development. For more information visit <u>http://standards.ieee.org/</u>.
- 19

20 About IEEE

- 21 IEEE, a large, global technical professional organization, is dedicated to advancing
- technology for the benefit of humanity. Through its highly cited publications,
- 23 conferences, technology standards, and professional and educational activities, IEEE is
- the trusted voice on a wide variety of areas ranging from aerospace systems,
- 25 computers and telecommunications to biomedical engineering, electric power and
- 26 consumer electronics. Learn more at <u>http://www.ieee.org</u>.
- 27 28
